A SURVEY OF CAREER OPPORTUNITIES FOR ELECTRONIC TECHNICIANS IN THE OKLAHOMA CITY AND TULSA AREAS

By

DOYLE KEITH CRAFT II

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Thesis Approved:

D S Shelley
Thesis Adviser

Eugene Grigsby

R W Tinnell

J N Dunlap
Dean of Graduate College

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TABLE OF CONTENTS

LIST OF TABLES

CHAPTER I

INTRODUCTION

The industrial strength and technological growth of any country is directly related to its labor force, particularly its semiprofessional and professional personnel. One member of the team responsible for our industrial growth in the United States during the past 20 years is the electronic technician. Manpower studies of recent years have indicated a continuing increase in the demand for electronic technicians; however, most of these studies have been on a national or state-wide level. This study was conducted on a local level involving the Oklahoma City and Tulsa areas.

Statement of the Problem

As electronic technicians in the Oklahoma City and Tulsa areas are trained in technological knowledge, there is a growing awareness of a need for more information on employment and job recruitment within the Oklahoma City-Tulsa areas. The time lag between when the need by industry arises and when a sufficient number of persons are prepared to fill this need can be drastically cut through proper manpower planning. This study was undertaken because of the lack of information on available employment opportunities which exist.

Purpose of the Study

The purpose of this study was to determine the occupational need for electronic technicians in the Oklahoma City (OKC)-Tulsa areas.

The primary objectives of this study were: (1) To determine the number of classified ads for electronic technicians placed in selected Oklahoma City and Tulsa newspapers by employment agencies and employers; (2) To provide manpower information showing potential demand for specific areas of electronic technician occupations; and (3) To classify these jobs as either electronic engineering technician or electronic service technician.

Need for the Study

The need for the study was generated by the continuing technological growth of the Oklahoma City and Tulsa areas. Government manpower studies indicate that the demand for electronic technicians will continue to increase for a decade and that 80 percent of the new jobs by 1985 will require more than a high school diploma, but less than a Baccalaureate degree. Consequently, it is worth exploring to see if help wanted advertising in a given labor area measures job opportunities in that area that are immediately available.

Scope of the Study

This study was limited to the classified ads in the Sunday edition of the Daily Oklahoman and the Tulsa World newspapers for electronic technicians, during the nine month period between February and October, 1975. No attempt was made to determine or predict the total number of electronic technician jobs available by employment agencies and employer

advertising.

Definition of Terms

ELECTRONIC ENGINEERING TECHNICIAN is a person concerned primarily with applying established scientific and engineering knowledge including technical skills to solve technical problems. He must assume much of the responsibility for translating ideas into practical use. From the scientist's or engineer's design and rough notes, he may provide detailed designs, or supervise manufacturing operations in many fields, or in building and testing prototype systems and then providing evaluation studies.

He must have an education based on mathematics, electronic theory, and scientific principles, plus a great deal of practical experience in electronics.

ELECTRONIC SERVICE TECHNICIAN is a person who does not require an extensive knowledge of science and engineering to perform his job. The range of technician jobs in this category of the electronics industry is the broadest, and their main concern is to service customer equipment and solve customer problems. Television, audio, microwave, and computer repairmen usually fall into this area. The service technician may receive specialized training on the company's equipment and be assigned a service region or a complex installation to maintain.

CHAPTER II

REVIEW OF RELATED LITERATURE

State-wide studies and studies encompassing smaller areas have been conducted which were concerned with locating and identifying electronic technician occupations, number of employees, education requirements, job descriptions (1) and the projected requirements for the next three to five years. Most of the studies of this nature have not been directly concerned with the employment opportunities that were immediately available.

The Occupational Training Information System (O.T.I.S.) is a manpower information system designed to develop and initiate continuous detailed manpower data in the entire State of Oklahoma (2). The system has six components; manpower supply, manpower demand, cost, follow-up, underdeveloped human resources, and sociopolitical involvements.

The O.T.I.S. reports divide the state into 11 areas. Through extensive data gathering techniques a yearly manpower need figure for almost the entire spectrum of occupational titles is computed. The O.T.I.S. cycle 6 - 1974 report showed a need for 209 electronic technicians and a supply of 258 electronic technicians in the Oklahoma City and Tulsa areas. There were: 16 in Secondary schools, 80 in Post-secondary, 1 in Adult Education, and 161 in Private schools. This leaves a demand "plus" supply total of 49 extra electronic technicians. The O.T.I.S. information was derived by taking the registrants and

students who have completed the training programs and are available to the labor market and subtracting them from the job openings of the area in the study.

As technology advances, manpower requirements shift accordingly. A large percentage of the new manpower requirements created by new technology is in the semiprofessional and technical areas according to Norman C. Harris (3) of the University of Michigan:

> The really significant changes in our labor force, and in society in general, have occurred at the level of the semi-professional and technical; the managerial, business and sales; and the highly skilled jobs. These jobs taken together, will account for over 50 per cent of the labor force by 1975 (p. 38).

Many studies indicate that a 2 to 1 ratio of technical to scientific and engineering personnel is desirable. To achieve this ratio it would have been necessary to graduate some 200,000 technicians annually during the 1960's.

In 1968 Howard P. Hardt (5) conducted a related study on the number of engineering technicians produced in Oklahoma from 1960 to 1967. One of his conclusions was: the demand for technicians will never be adequately filled in the future and would be filled less and less as time went on.

In a study by Larry D. Jones (6) consisting of a questionnaire sent to schools in the Tulsa area, the questionnaire asked what per cent of the total number of engineering technicians seek employment in the Tulsa area. The responding schools showed that approximately 27 per cent of the total number of engineering technician graduates found employment in the Tulsa area.

The Oklahoma Employment Security Commission made a survey in

October, 1963 and in June, 1969 (7, 8). These surveys were made to determine the manpower needs of Oklahoma. In the 1963 survey, all firms with 100 or more employees were contacted, as was one out of five firms with 20 to 29 employees, and 1 out of 25 firms with 4 to 19 employees. A total of 1,903 firms were contacted in the survey, and a 54.2 per cent return was obtained. In the 1967 manpower survey, the upper 50 per cent of employers, by size were contacted and twenty per cent of the bottom 50 per cent were contacted. Of the 2,544 employers in the survey, 70.1 per cent responded with a usable answer. These studies cannot be directly compared and were cited more to show trends than to be compared to each other. Some interesting information to come from the two surveys is that the technician need per year in the earlier survey for years 1970 to 1975 was increased by 50 per year.

A manpower study (4) was conducted by the Olympus Research Corporation (ORC) for the manpower administration. The study involved an in-depth analysis of the help wanted sections of selected Sunday editions of two newspapers, the San Francisco Chronicle-Examiner and the Salt Lake City Tribune.

The objectives of the study were to find out how well want ads serve employers and job seekers. Some conclusions reached by ORC were: (1) The survey was too small to predict actual trends. (2) The newspaper ads are being used for advertisement. (3) The job opportunities in the paper may be placed more than one time by more than one agency. (4) Employers rely on a variety of ways to fill job openings. Although inconclusive in some respects, the study findings may help local manpower planners to glean some useful information from newspaper classified sections by making it possible to extract from the ads any

significant job market information, such as prevailing wages, changes in the skill needs, and trends in educational requirements. The local manpower planners should also be alerted to the danger of basing major decisions on information from this source.

Analyses of want ads have been made by the National Industrial Conference Board, a few research firms and individual researchers. The conference board uses a quanitative index of want-ad volume as an economic indicator. Researchers have tested the feasibility of using want ads to measure job vacancies (10) and as a tool to identify "Shortage Occupations." Most of these analyses have involved basically a count of want ads. For example the Olympus Research Corporation, in its study of the effectiveness of the Manpower Development Training Act (MDTA) in meeting employers' needs in skills shortage occupations, used want ads as an indicator of occupational demand (12). Ads were categorized by six-digit Dictionary of Occupational Titles (DOT) Codes and Counted. This information, together with other indicators, was used to determine whether MDTA training was being conducted in demand occupations.

There appears to be a growing skepticism regarding the value of want ads as an economic indicator and as a useful tool to job seekers. For example, a Washington Post article quoted public officials in both the District of Columbia and Maryland as questioning the validity of many of the jobs listed in the want ads (11). Harvey Katz, writing in the November 1970 issue of The Washingtonian, questions particularly the validity of jobs listed by private employment agencies (13). Local manpower planners surveyed by ORC in its "skill shortage" study expressed strong reservations about the value of want ads as a source of labor market information. Many of the limitations of help-wanted advertising

as measures of labor demand have been discussed by Mrs. Charlotte Boschan (14). One of her limitations stated, there was no pretense of counting the number of jobs to be filled, only the number of advertisements placed in the newspapers.

Summary of Literature

Manpower studies are continually being made. Through these studies it is possible to determine the trends of industry in the past and also project trends in the future. Each source of information predicted a continuing and widening job market for electronic technicians. Oklahoma manpower studies showed that Oklahoma trains more technicians than employed in the state. But the career opportunities should increase if the national upward trend in technology continues.

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CHAPTER III

PROCEDURES

This investigation was conducted to determine the occupational need for electronic technicians in the Oklahoma City and Tulsa areas. Operating under the premise that one of the most suitable means of obtaining information over a short period of time on job opportunities in the Oklahoma City and Tulsa areas was through the classified want ads of the Sunday Oklahoman and Tulsa World newspapers.

To achieve the objectives of the study, the following tasks were performed:

A survey of newspaper classified ads was conducted. Because Sunday editions of newspapers generally contain approximately 82 per cent of electronic technician want ads appearing in daily editions (4), only the Sunday editions of the classified want-ad sections were studies. Moreover, it seems likely that more job seekers scan Sunday papers than weekday editions.

In the Oklahoma City area, there was a choice between the Sunday Oklahoman, which has a circulation of 288,017 papers, and the Sunday Journal, with a circulation of 42,709. The Sunday Oklahoman was chosen because of their larger circulation. The Tulsa World was the only Tulsa newspaper to be published on Sunday. They have a circulation of 196,552.

The method used to collect the data was by recording the total number of electronic technician want ads from the Sunday edition papers.

The data were recorded in terms of ad date, name of paper, job title, job description, agency or firm name, and job location. This weekly collection continued from February through October, 1975.

After the data were collected, these were tabulated in terms of a summary of available electronic technicians' ads, location of jobs versus number of ads, and classification of surveyed job titles. The data gathered then were used to determine available jobs, supply manpower information and job classification into two categories; electronic engineering technician, and electronic service technician. The data were analyzed using descriptive research and compared to past studies. From this analysis, conclusions and recommendations were drawn.

CHAPTER IV

PRESENTATION AND ANALYSIS OF DATA

The purpose of this study was to determine the occupational need for electronic technicians in the Oklahoma City and Tulsa areas.

Data were collected from the employment ads of the Sunday Oklahoman and the Sunday Tulsa World. These data were tabulated on a weekly basis in terms of: ad date, paper, job title, job description, ad placed by employment agency or private business and location of job. The data is shown in Appendix A.

Private employers placed 55 per cent of the ads, while employment agencies placed the remaining 45 per cent. A summary of Appendix A depicting the available electronic technician ads in the Oklahoma City and Tulsa areas is shown in Table I. Of the 276 total ads surveyed in the Oklahoma City-Tulsa areas, 70.3 per cent were from the Oklahoma City area and 29.7 per cent were from the Tulsa area. The two largest months for job ads were June and August.

A total of 22,107 employment ads were placed during the nine-month period under investigation in the Sunday Oklahoman. Of these, 193 were ads for electronic technicians, which represents a 0.87 per cent of the total ads in the Oklahoma City area.

The average number of electronic ads per week was 7.3 ads. This was determined by taking the total number of ads and dividing them by the number of weekly papers in the survey.

TABLE I

A SUMMARY OF AVAILABLE ELECTRONIC TECHNICIAN ADS

Month	Sunday Oklahoman	Tulsa Sunday World	Total
February	19	5	24
March	24	5	29
April	22	7	29
May	19	4	23
June	24	16	40
July	23	9	32
August	25	18	43
September	24	8	32
October	14	10	24
Total:	194	82	276

Of the 276 job opportunities listed in the area newspapers, 88 per cent were in-state, 9 per cent were out-of-state, and 3 per cent were in foreign countries. This data is represented in Table II.

A listing of electronic technician job titles from the help wanted ads of the survey area is presented in Table III. The titles as defined in Chapter I, were broken down into two established categories of technician activity: Electronic service technician (in which the general functions were installation, maintenance, and repair) or electronic engineering technician (where the general function is direct support of the design engineer). The electronics engineering technician made up 58

per cent of all the want ads and the electronic service technician made up the other 42 per cent.

TABLE II

LOCATION OF JOBS VERSUS NUMBER OF ADS

Job Location	Number of Ads
In-State	243
Out-of-State	25
Foreign Countries	8
Total	276

TABLE III

CLASSIFICATION OF SURVEYED JOB TITLES

Electronic Engineering Technician	Number of Ads	Electronic Service Technician	Number of Ads
Circuit Board Department Head	1	Aircraft Electronic Technician	1
Communication Technician	2	Audio Technician	3
Customer Engineer	1	Avonics Technician	1
Electronic Instructor	3	CATV Technician	3
Electronic Maintenance Engineer	1	CB Technician	2
Electronic Technician	138	Electronic Assembler	4
Electronic Test Technician	1	Electronic Counter Person	1
Field Engineer	1	Electronic Experience	1
Instructor	3	Electronic Maintenance Technician	2
Microwave Technician	1	Field Service Technician	5
Service Engineer	1	Field Technician	4
Solid State Technician	1	Instrument Technician	3
Supervisor	1	Maintenance Electrician	1
Video Technician	3	Maintenance Mechanics	1

TABLE III (Continued)

Electronic Engineering Technician	Number of Ads	Electronic Service Technician	Number of Ads
X-ray Technician	2	Manufacturing Engineer	1
Total	160	Medical Service Technician	3
		Medical Technician	2
		Mobile Radio Technician	1
		Repair Technician	1
		Service Technician	13
		Stereo Technician	2
		Technician	6
		Technician Representative	2
		Transmitter Technician	1
		TV and Radio Technician	7
		TV Lineman	1
		TV Technician	43
		2-way Technician	1
		Total	116

CHAPTER V

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The problem with which this study was concerned was the need for electronic technicians within the Tulsa-Oklahoma City areas.

Summary

This survey was conducted to determine the occupational need for electronic technicians through the want ads of the Sunday editions of newspapers in the Oklahoma City and Tulsa areas. The primary objectives were:

1. To determine available jobs for electronic technicians in the Oklahoma City and Tulsa areas through a survey of newspaper want ads.

2. To provide manpower information showing potential demand for electronic technician occupations.

3. To classifying these occupations as either electronic engineering technician or electronic service technician.

The design of the study was ex post facto and of a descriptive nature. Data were gathered from the Sunday editions of the Oklahoman and Tulsa World newspapers. These data consisted of a survey of the news media want ads. The information obtained was used to determine available jobs, supply manpower information and to classify these jobs into two classifications; electronic engineering technician or electronic service technician.

Limitations

A large percentage of the jobs listed with private agencies is listed with more than one agency (11). This happens both because many employers who use private agencies list their jobs with more than one, and because various private agencies call the same employers (in their job development efforts) thus leading to the same jobs being listed with several agencies. This duplicating factor, together with the fact that the jobs listed in the want ads by private agencies constitute only a small percentage of the total job orders held by private agencies, makes it impossible to determine the total number of jobs, as opposed to ads listed in any edition of the classified want ads.

Conclusions

The first objective of this study was to determine the available jobs for electronic technicians in the Oklahoma City and Tulsa areas through a survey of newspaper want ads. There were 276 ads for electronic technician careers. The O.T.I.S. report (1974) showed a need for 209 electronic technicians. Assuming that want ads represent unfilled jobs, the data from this study would support the Hardt study (5) that the demand for electronic technicians will never be filled, and will be filled less as time goes on. But because of the ambiguities pointed out in Chapter II (11, 14), the count of help-wanted ads cannot, except by accident, yield a close count of the number of job vacancies.

The second objective of this study was to provide manpower information showing potential demand for electronic technician occupations. The O.T.I.S. report (2) showed a surplus of 40 technicians while this

survey showed a need for 276 technicians. If the O.T.I.S. report is a true picture of demand, why are there so many technician opportunities in the newspaper ads? As pointed out by the Olympus Research Corporation Manpower Study (4, 9), the answer may be: (1) The survey is too small to predict trends. (2) The newspaper ads are being used for advertisement. (3) The job opportunities in the paper may be placed more than one time by more than one agency. (4) Employers rely on a variety of ways to fill job openings. Table I - A Summary of Available Electronic Technician Ads - reveals a large increase in ads during the months of June and August. A logical conclusion may be that employers have a tendency to advertise more in June, trying to attract the graduating student. They may also have large advertisements in August to replace their summer student employees. The want ads reflect only the local manpower opportunities. This is obvious by analyzing Table II - Location of Jobs Versus Number of Ads. The in-state job ads accounted for 88 per cent of the total ads. The ads do not offer adequate or easily obtained information that would make it possible for job seekers to decide whether they are suited to a job, or want it. This is particularly true of inexperienced job seekers. Want ads do not yield enough data about job markets to justify extensive and costly analysis of the ads by manpower planners. Yet the classified want ads constitute the single most convenient listing of job vacancies for job seekers and the only public listing of job opportunities with the possible exception of lists displayed on some type of public bulletin board.

The third objective of this study was to classify these occupations as either electronic engineering technician or electronic service technician. Table III is a classification of job titles as defined in

Chapter I. The most frequently used title of electronic engineering technician was the electronic technician with 138 ads. The most frequently used title of electronic service technician was the TV technician with 43 ads. Electronic technicians and TV technicians accounted for 66 per cent of all want ad opportunities. Job seekers with experience in either of the two preceding titles would have the best opportunity in finding employment from the want ads. Further analysis of Table III could be beneficial to curriculum planners. There would be very little need for devoting class time on such low priority items as customer engineers or avonics technician. Most of the curriculum could be devoted to training technicians for jobs such as electronic technicians or as TV technicians.

The fact is that classified ads present job seekers with a very difficult maze (4). This maze is made up of a hodgepodge of solicitations from local employers, private employment agencies, and large firms engages in national, state, and local recruitment. The amount of job information varies greatly from ad to ad. Often, occupational designations are uninformative. In many cases, ads were written to attract the largest number of applicants rather than to match workers to jobs. Sometimes, the ads appear to describe jobs but are, in fact, advertising job opportunities.

Recommendations

The recommendations based on this survey are <u>not</u> to use this type survey on a <u>large scale</u> manpower study, because there are too many ambiguities in the want ads. This type study <u>can</u> be used by local manpower planners to give some useful information such as prevailing wage,

trends in educational requirements and needed skills. The survey period should be of longer duration so that the local trends would be more accurate and meaningful.

Further study should be done to determine, at a given point of time, how the stock of local electronic technician jobs that are open in the employment service compares, occupation by occupation, with the jobs advertised by employers. Also, how many actual employment transactions take place as a direct result of want ads and what kinds of valid labor market information on electronic technicians are contained in want ads.

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APPENDIX

A SURVEY OF JOB OPPORTUNITIES

FOR ELECTRONIC TECHNICIANS

A SURVEY OF JOB OPPORTUNITIES FOR ELECTRONIC TECHNICIANS

Date & Paper		Title	Description	Agency	Firm	Location
9 Feb. 75						
Sunday Oklahoman:	1.	Electronic Maintenance Engineer	Complex Electronic Equipment		Box F700 Paper	OKC
	2.	TV & Radio Technician			ABC Rentals	OKC
	3.	TV Technician			Hawkins-Eddins Appliance	Pampa,TX
	4.	Electronic Technician	RF-UHF & VHF Transmitters & Receivers			Hartshorne, Okla.
	5.	X-ray Medical Electronic Trainee			Litton Medical Systems	OKC
	6.	Electronic Technician	TV Radio Repair			OKC
	7.	Electronic Technician	Calibration of Test Equipment		Houston Labs	OKC
	8.	Electronic Technician	Microwave or Video Tape	Snelling & Snelling		OKC
Tulsa World:	1.	Electronic Assembler	PC Boards & Wiring		Daric Design	Tulsa
	2.	X-ray Medical Electronic Trainee		*Same as #5, 9 Feb-OKC	Litton Medical Systems	OKC
16 Feb. 75						
Sunday Oklahoman:	1.	Electronic Technician	PC Board, assembly & testing	International Employment Agcy		OKC
	2.	Electronic Test Technician	Communication, Control & testing	International Employment Agcy		OKC
	3.	Communication Technician	Mobile Radio & Microwave		OG&E Gas	OKC

Date & Paper		Title	Description	Agency	Firm	Location
	4.	Electronic Technician	Business Machines	Grant Suburban Personnel		OKC
	5.	Electronic Technician	Bio Medical, X-ray	International Employment Agcy		OKC
Tulsa World:	1.	Electronic Technician	Manufacturing	Lloyd Richards		Tulsa
	2.	TV Technician	TV Repair		Box 2147-W Paper	Kansas
23 Feb. 75						
Sunday Oklahoman:	1.	Electronic Technician	Communications TV Repair		Baptist Medical Center	OKC
	2.	Electronic Technician	PC Board, assembly & testing	*Same as #1 on 16 Feb-OKC		OKC
	3.	Electronic Technician	Bio Medical, X-ray	*Same as #5 on 16 Feb-OKC		OKC
	4.	Electronic Instructor	Instructor	International Employment Agcy		OKC
	5.	Electronic Technician	Customer Service		Sooner Co.	OKC
	6.	Electronic Technician	Business Machines	*Same as #4 on 16 Feb-OKC		OKC
Tulsa World:	1.	Electronic Technician	Solid State Repair		Lowrance Electric, Inc.	Tulsa
2 March 75						
Sunday Oklahoman:	1.	Electronic Technician	Scientific Recording of pipeline control equipment.			OKC

Date & Paper		Title	Description	Agency	Firm	Location
Tulsa World:	1.	Electronic Technician	Repair of mini-computer terminals		CBSI	Tulsa
9 March 75						
Sunday Oklahoman:	1.	TV Technician	TV Repairman		Box 95 Paper	OKC
	2.	Video Technician	Wiring of equipment for Video Tapes	Arrow Personnel		OKC
	3.	Electronic Technician	Second class FCC Licensee	University Employment		OKC
	4.	Electronic Technician		Career Consultants		OKC
	5.	Electronic Technician	Business Machines	*Same as #4 on 16 Feb-OKC		OKC
	6.	Electronic Technician		Sooner Equipment		OKC
Tulsa World:	1.	Solid State Technician	Stereo Components			Tulsa
16 March 75						
Sunday Oklahoman:	1.	Electronic Technician	Computer & digital clocks		Trexel Corp.	OKC
	2.	Electronic Technician	Repair & building electronic sound systems	Snelling & Snelling		OKC
	3.	Electronic Technician	Computer field engineer	Career Consultants		OKC
	4.	Electronic Technician	Electronics & electricity		Box 710 Paper	OKC
	5.	Electronic Technician	Stereo Repair		Tel. 631-4022	OKC
	6.	Electronic Technician	TV Repairman	Acme Personnel		OKC

Date & Paper		Title	Description	Agency	Firm	Location
Tulsa World:	1.	Electronic Technician		Johnson Personnel		Tulsa
23 March 75						
Sunday Oklahoman:	1.	TV Technician	Outside Man		Chrisman Appliance	OKC
	2.	Electronic Technician	Automated Machinery			Amarillo
	3.	Electronic Technician	2-way Radio	Career Consultant		OKC
	4.	Electronic Technician	Industrial Conveyor Equipment	Career Consultant		OKC
	5.	Electronic Technician	National Business Machines	Snelling & Snelling		OKC
Tulsa World:	1.	Electronic Technician	Digital Logic		Daric Score-boards	Tulsa
30 March 75						
Sunday Oklahoman:	1.	TV Technician	Color TV Repair	Acme Personnel		OKC
	2.	Electronic Technician	National Business	Snelling & Snelling *Same as #5 on 23 Mar-OKC		OKC
	3.	TV Technician	Repair		Jensen's Car Dealer	Fairview
	4.	TV Technician	Outside work$400/wk + new Cadillac		Phone 787-9070	OKC
	5.	Electronic Technician	Solid State Audio Amplifiers		Phone 341-3467	OKC

Date & Paper		Title	Description	Agency	Firm	Location
	6.	TV Technician	Repair		Murray's TV	Midwest City
Tulsa World:	1.	Electronic Technician	Amplifiers & Fabrication	20th Century Personnel		Tulsa
6 April 75						
Sunday Oklahoman:	1.	TV Technician	TV Repair			3126 N. Drexel
	2.	Radio & TV Assistant	Teaching Class		South OKC Jr. College	OKC
	3.	Electronic Technician	National Business Machines	*Same as #5 on 23 Mar-OKC		100 Park Ave.
	4.	Electronic Technician	Install & Repair Audio	Snelling & Snelling		
	5.	Electronic Technician	Business Machine Repair	Grant Suburban Personnel		OKC
Tulsa World:	1.	Electronic Technician	DC Power Circuits	Plaza Personnel		Tulsa
13 April 75						
Sunday Oklahoman:	1.	Instrument Technician	Test Equipment Repair	Southwest Cleaners		Greenland
	2.	TV Technician	TV Repair	*Same as #3 on 30 Mar-OKC	Jensen's Inc.	Fairview
	3.	Electronic Technician		Snelling & Snelling		OKC
	4.	Electronic Technician	Business Machine	Grant Suburban Personnel *Same as #4 on 16 Feb-OKC		OKC

Date & Paper		Title	Description	Agency	Firm	Location
Tulsa World:	1.	Electronic Technician	Programming	Career Specialist		Tulsa
20 April 75						
Sunday Oklahoman:	1.	Electronic Technician	Industrial Maintenance		Iowa Beef Producers	Amarillo, Texas
	2.	Field Engineer	Overseas	CDI Corp. Employment		Philadelphia, Pa.
	3.	TV Technician	TV Repair		2415 SW 59th	OKC
	4.	Electronic Technician	Business Machines	Grant Suburban Personnel *Same as #4 on 16 Feb-OKC		OKC
	5.	Electronic Technician	Electromechanical Data Processing		Lundy Electronics & Systems, Inc.	Houston, Texas
	6.	Electronic Technician		Career Consultants		OKC
	7.	Electronic Technician		Sooner Employment		OKC
Tulsa World:	1.	Electronic Technician	Maintenance Numerical Control Machine	20th Century Personnel		Tulsa
	2.	Video Technician	Digital & Logic Circuits	20th Century Personnel		Tulsa
27 April 75						
Sunday Oklahoman:	1.	Customer Engineer	Data Processing		EDP	810 7th Ave. N.

Date & Paper		Title	Description	Agency	Firm	Location
	2.	Instrument Technician	Recording Equipment		Allen Bradley	Shawnee, Okla.
	3.	TV Technician	TV Repairman		1233 SW 29th	OKC
	4.	Electronic Technician	Repair & Maintenance		Sentury Mfg. Co.	Chickasha, Okla.
	5.	Service Engineer	Machines (N-C)		Box 524 Paper	OKC
	6.	Electronic Technician	Repair Amplifiers	Dial Personnel		OKC
Tulsa World:	1.	Technician	Electronic Maintenance		Box 2456W Paper	S.W. Kansas
	2.	Electronic Technician	Logic Circuits		Telex Corp.	Tulsa
	3.	Technician Rep.		Southwest Careers		Tulsa
4 May 75						
Sunday Oklahoman:	1.	Service Technician	Service X-ray Equipment		Litton Medical System	Kansas City
	2.	Field Technician	Navigational Aids	Mr. Sckalsky	AC202/223-5520	Washington D.C.
	3.	Medical Technician		Snelling & Snelling		OKC
	4.	Audio Technician	Audio Repair	Arrow Personnel		OKC
	5.	Electronic Technician	Stereo Installer	Dial Personnel		OKC
	6.	Electronic Technician	Radio Field Engineer	Career Consultants		OKC
	7.	Electronic Technician	Stereo Systems	Beacon Employment		OKC

Date & Paper		Title	Description	Agency	Firm	Location
Tulsa World:	1.	Electronic Maintenance Technician	Integrated Circuits		Braden Ind. Inc.	Broken Arrow
11 May 75						
Sunday Oklahoman:	1.	TV Technician	TV Repair		Mr. Johnson 787-9070	OKC
	2.	TV Technician	TV Repair		3508 Newcastle Rd.	OKC
	3.	Transmitter Technician	Transmitter Maintenance		WKY Radio	OKC
	4.	TV Technician	Cable TV Installation		MultiVue TV	Grand Island, Neb.
Tulsa World:	1.	Electronic Technician	Radar & Digital		Dynalectron Corp.	Holliman AFB, N.M.
18 May 75						
Sunday Oklahoman:	1.	TV Technician	TV Repair	*Same as #1 on 11 May-OKC	Mr. Johnson Pho. 787-9070	OKC
	2.	Electronic Technician	UHF & VHF Radio		Jim Wetwiska Pho. 848-4819	Hartshorne Okla.
	3.	Electronic Technician	Avionics		Lockheed Aircraft Ontario, Calif.	Overseas
	4.	TV Technician	TV Repair		PO Box 901	Pampa, Tx
Tulsa World:	1.	Electronic Technician	Field Technician	Johnson Personnel		Tulsa

Date & Paper		Title	Description	Agency	Firm	Location
25 May 75						
Sunday Oklahoman:	1.	Electronic Technician	Electronic Equipment Construction & Repair		Oklahoma Univ.	Norman
	2.	Electronic Technician	Field Service on Digital Circuitry		CMI Corp.	OKC
	3.	TV Technician	Repair		Motel 3300 SW 29th	OKC
	4.	Audio Technician	Audio Repair	Arrow Personnel		OKC
Tulsa World:	1.	Electronic Technician	Repair of A&D Equipment		Phillips Pet.	Bartlesville, Okla.
1 June 75						
Sunday Oklahoman:	1.	TV Technician	TV Repair		Pho. 789-4593	OKC
	2.	Service Technician	Radar Repair	Arrow Personnel		OKC
	3.	Technical Rep.	X-ray Service		Pho. 843-1206	OKC
	4.	TV Technician	TV Repair		McCurley's TV	Norman
Tulsa World:	1.	TV Technician	TV Repair		PO Box 1348	Enid
8 June 75						
Sunday Oklahoman:	1.	Electronic Technician	Electronic Equipment Installation		H.L. Yoh Co. St. Louis, Mo.	Canada

Date & Paper		Title	Description	Agency	Firm	Location
	2.	TV Technician	TV Repair	*Same as #1 on 1 June-Tulsa		
	3.	Electronic Technician	Radar & Digital Equipment		Philco Willo Grove, Pa.	Germany
	4.	Field Service Technician	Digital Circuitry	*Same as #2 on 25 May-OKC	CMI Corp.	OKC
Tulsa World:	1.	Electronic Technician	Computers	Career Specialist		OKC
	2.	Electronic Technician	Service Calculators		Allee Office Equipment	Tulsa
	3.	TV Technician	TV Repair	*Same as #1 on 1 June-Tulsa	PO Box 1348	Enid
15 June 75						
Sunday Oklahoman:	1.	Electronic Experience	Mechanical Ability		Pho. 848-7827	OKC
	2.	Radio Technician	Mobile Repair		Halifax Engr.Inc.	Altus AFB Okla.
	3.	Instrument Technician	Servicing Flight Equipment		Aircraft Co. Radio & Accessories	Denver, Colo.
	4.	Service Technician	Alarm & Switching Systems	International Personnel		OKC
	5.	Medical Service Technician		International Personnel		OKC
	6.	Field Technician		International Personnel		OKC
	7.	Stereo Technician	Stereo Service		3128 N. May	OKC

Date & Paper		Title	Description	Agency	Firm	Location
Tulsa World:	1.	Electronic Technician	Digital Controls		Box 2643W	Tulsa
	2.	Manufacturing Engineer	Electronic Assembly		Box 2643W	Tulsa
	3.	Radio Technician	Communication Installation	Enterprise Personnel		Tulsa
	4.	TV Technician	Repair		Weaver TV Service	Tulsa
	5.	TV Technician	Bench Repair		Pho. 687-3331	Tulsa
22 June 75						
Sunday Oklahoman:	1.	Electronic Technician	TV Experience	International Personnel		OKC
	2.	Technician	Trouble Shooting solid state circuitry	4001 N. Lincoln Blvd.		OKC
	3.	Mobile Radio Technician	Mobile Repair	*Same as #2 15 June-OKC	Virginia	Altus AFB
	4.	Service Technician	D&A Circuits		Box F620	OKC
Tulsa World:	1.	Technician	Trouble Shooting	*Same as #2 22 June-OKC		OKC
	2.	Electronic Counter Person		Lloyd Richards		Tulsa
29 June 75						
Sunday Oklahoman:	1.	Stereo & CB Technician	Installation & Repair		Reeder Electronics	OKC
	2.	TV Lineman	Splicers		Pho. 817-773-1163	Texas
	3.	Service Technician	Bank Security Equipment		Box F622	OKC
	4.	TV Technician	TV Repair	Empire Employment		OKC

Date & Paper		Title	Description	Agency	Firm	Location
	5.	Electronic Technician	Solid State Repair	Dial Personnel		OKC
Tulsa World:	1.	Electronic Technician	Instrument Assembly		Univ. Oil Production Co. Auto Products	Tulsa
	2.	Electronic Technician	2-way Radio	Wick Personnel		Tulsa
	3.	Service Technician	Electronic Repair	Johnson Personnel		Tulsa
	4.	Electronic Assembler	P.C. Boards		Clay Bernard Systems International	Tulsa
	5.	Service Technician	Bank Security	*Same as #3 29 June-OKC	Box 2286W	Tulsa
6 July 75						
Sunday Oklahoman:	1.	Field Service Technician	Maintaining Health Care Instruments		American Sterilizer	Erie, Pa.
	2.	Aircraft Electronic Technician	Instrument Wiring	Dial Personnel	Co.	OKC
Tulsa World:	1.	Electronic Technician	Solid State		City of Tulsa	Tulsa
13 July 75						
Sunday Oklahoman:	1.	Service Technician		*Same as #4 15 June-OKC		OKC
	2.	Medical Service Technician		*Same as #5 15 June-OKC		OKC
	3.	Field Technician		*Same as #6 15 June-OKC		OKC

Date & Paper		Title	Description	Agency	Firm	Location
	4.	Electronic Instructor	Teaching		H.C. Lewis Electric	OKC
	5.	Electronic Technician	Oil Field Work	Grant Suburban Personnel		OKC
	6.	Electronic Technician		Classen Personnel		OKC
	7.	Electronic Technician		*Same as #2 18 May-OKC		OKC
Tulsa World:	1.	TV Technician	Outside Calls		Pho.939-4488	Tulsa
20 July 75						
Sunday Oklahoman:	1.	Service Technician		*Same as #4 15 June-OKC		OKC
	2.	Medical Service Technician		*Same as #5 15 June-OKC		OKC
	3.	Field Technician		*Same as #6 15 June-OKC		OKC
	4.	Electronic Technician			Midland Ind. Inc.	OKC
	5.	Radio Technician	Aircraft Radio	Dial Personnel		OKC
	6.	Repair Technician	Stereo Repair	Arrow Personnel		OKC
	7.	2-way Technician	Repair Pagers & Portables		G.C.S.	Tucson, Ariz.
Tulsa World:	1.	Electronic Technician	Design Process Instruments		MAPCD, Ind.	Tulsa
	2.	Electronic Maintenance Technician	Integrated Circuits		Braden Ind.	Broken Arrow

Date & Paper		Title	Description	Agency	Firm	Location
	3.	Electronic Technician	Servicing Cassette Equipment		New Century Corp.	New Jersey
	4.	Electronic Technician	Test Instruments	Johnson Personnel		Tulsa
27 July 75						
Sunday Oklahoman:	1.	Radio Technician	2-way Repair	Dial Personnel		OKC
	2.	Electronic Technician	Digital Electronic		Mercy Health Center	OKC
	3.	Service Technician	Audio Service		Sound Trak	OKC
	4.	Service Technician	Security Systems		Rollins Protector Service	OKC
	5.	TV Technician	Repair		Pho. 529-2717	OKC
	6.	Electronic Technician	Assembly Line	International Personnel		OKC
	7.	Instructor	Computer Control		TSTI Mid-Continent Campus	Amarillo, Tx.
Tulsa World:	1.	Electronic Technician	Digital & Analog		MAPCO, Inc.	Tulsa
	2.	Electronic Technician	Test Instruments	Johnson Personnel		Tulsa
	3.	Electronic Technician	Digital & Analog	20th Century Personnel		Tulsa

Date & Paper		Title	Description	Agency	Firm	Location
3 Aug. 75						
Sunday Oklahoman:	1.	Technicians	Radio/Radar Operators		Felec Serv.Inc. New Jersey	Greenland
	2.	Field Service	Logic Circuits		GTE Information Systems	Pho. 816-474-9244 Calif.
	3.	Electronic Technician	Electronics	Waller & Waller		OKC
	4.	Electronic Technician	Audio	International Personnel		OKC
	5.	Instructor	Part Time Electronics		H.C. Lewis Electronics	OKC
Tulsa World:	1.	Electronic Technician	Wiring Control Panels		John Zink Co.	Tulsa
	2.	Electronic Technician	Install Electronic Systems		Braden Ind. Inc.	Broken Bow
	3.	Maintenance Electrician	Maintain Electronic Equipment		Yuba Heat Transfer Corp.	Tulsa
	4.	Electronic Technician	VHF & UHF		LaBarge, Inc.	Tulsa
	5.	CATV Technician	CATV Maintenance		Jackson Co. Cable System	Independence, Mo.

Date & Paper		Title	Description	Agency	Firm	Location
10 Aug. 75						
Sunday Oklahoman:	1.	Electronic Technician	Assembly Line	International Personnel	**Same as OKC 27 July #6	OKC
	2.	Electronic Technician	Repair	International Personnel		OKC
	3.	Electronic Technician	2-way Radio	International Personnel		OKC
	4.	TV Technician	Repair		Ted's TV	OKC
	5.	TV Technician	Inside-Outside		Pho. 787-9070	OKC
	6.	Electronic Technician	Repair & Trouble-shooting		World Wide Services Willow Grove, Pa.	Germany
	7.	Electronic Instructor	Teaching	**Same as #5 3 Aug.-OKC	H.C. Lewis Electronics	OKC
Tulsa World:	1.	Electronic Technician	Test Instruments	Johnson Personnel	**Same as Tulsa 27 July #2	Tulsa
	2.	CATV Technician	CATV Maintenance	**Same as #5 3 Aug-Tulsa		Independence, Mo.
17 Aug. 75						
Sunday Oklahoman:	1.	TV Technician	Outside Work	**Same as #5 10 Aug.-OKC	Pho. 787-9070	OKC
	2.	Supervisor	Electronics	Snelling & Snelling		OKC

Date & Paper		Title	Description	Agency	Firm	Location
	3.	Electronic Technician	2-way Radio	International Personnel	**Same as #3 10 Aug.- OKC	OKC
	4.	Electronic Technician	Repair	International Personnel	**Same as #4 10 Aug.- OKC	OKC
	5.	Electronic Technician	Stereo Bench Repair		Pho. 946-3887	OKC
Tulsa World:	1.	Electronic Technician	Computer	Career Specialists		Tulsa
	2.	CATV Technician	Maintenance		Bob Schirmer	Grand Island, Neb.
	3.	Electronic Technician	Texas Instruments	Johnson Personnel	**Same as #2 27 July- Tulsa	Tulsa
	4.	Electronic Technician	Digital & Analog		TELEX	Tulsa
	5.	Electronic Technician	Testing		Systa-Matics, Inc.	Tulsa
	6.	Electronic Assembler	Soldering & Wiring		Daric Design, Inc.	Tulsa
	7.	TV Technician	TV Repair		Pho. 687-3331	Muskogee
	8.	TV Technician	Bench Work		Pho. 836-7724	Tulsa
24 Aug. 75						
Sunday Oklahoman:	1.	Audio Technician	Repair		Reeder Elec.	OKC

Date & Paper		Title	Description	Agency	Firm	Location
	2.	Avonics Technician	UHF & VHF Repair		Northrop Aviation	(Overseas) Calif.
	3.	Video Technician	Video Repair		Northrop Aviation	Overseas Calif.
	4.	Electronic Technician	Component Construction		Box J931 Paper	Eastern, Okla.
	5.	Electronic Technician	IC Design	Select Search		Greenland
Tulsa World:	1.	Electronic Assembler	PC Board Construction		Systa-Matics, Inc.	Tulsa
	2.	Electronic Technician	D&A Computers	Atkins & Merrill		Tulsa
	3.	Electronic Technician	Test Instruments	Johnson Personnel		Tulsa
31 Aug. 75						
Sunday Oklahoman:	1.	Electronic Technician	2-way Radio		General Communi-cation	Kansas
	2.	Electronic Technician	Satellite Communication		Kentron	Hawaii
	3.	Electronic Technician	Stereo Repair	Dial Personnel		OKC
Tulsa World:	1.	Electronic Technician		Career Specialist		Muskogee
7 Sept. 75						
Sunday Oklahoman:	1.	TV Technician	Repair		Eales TV	OKC

Date & Paper		Title	Description	Agency	Firm	Location
	2.	Field Service Rep.	Computer Maintenance		Digital Equip-ment Co.	OKC
	3.	Microwave Technician	Repair	Select Search		Scotland
	4.	Service Technician	Commercial Radio Systems	Career Con-sultants		OKC
Tulsa World:	1.	Electronic Technician	Microwave Equipment	Dunhill		Tulsa
	2.	Electronic Technician	Test Instruments	Johnson Personnel		Tulsa
14 Sept. 75						
Sunday	1.	TV Technician	Part-time		Chapman's	OKC
Oklahoman:	2.	Electronic Technician	2-way Service	International Personnel		OKC
	3.	Electronic Technician	2-way Service	Snelling & Snelling		OKC
	4.	Electronic Technician	Field Equipment	Grant Suburban Personnel		OKC
Tulsa World:	1.	Medical Technician	Medical Electronic Field Service		Instru-mentation Lab. Inc.	Mass.
	2.	Electronic Technician	Microwave Equipment	Dunhill	**Same as #1 7 Sept.-Tulsa	Tulsa
	3.	Electronic Technician	Test Instruments	Johnson Personnel	**Same as #2 7 Sept.-Tulsa	Tulsa
	4.	Electronic Technician	Electronic Design	Virginia Webb		Tulsa

Date & Paper		Title	Description	Agency	Firm	Location
21 Sept. 75						
Sunday Oklahoman:	1.	Electronic Technician	2-way Repair	International Personnel		OKC
	2.	TV Technician	Repair		1233 SW 29th	OKC
	3.	TV Technician	TV Repair		Pho. 943-3357	OKC
	4.	CB Technician	Sales & Service	King Personnel		Okla.
	5.	Electronic Technician		Snelling & Snelling		OKC
	6.	Radio Repairman	2-way Repair & Manager		Pho. 316-262-3645	Central U.S.
Tulsa World:	1.	Technician	Electronic Assembly Inspector		LaBarge, Inc.	Tulsa
28 Sept. 75						
Sunday Oklahoman:	1.	Electronic Technician	TV Bench Service	**Same as #3 21 Sept-OKC	Pho. 943-3357	OKC
	2.	Electronic Technician	Computer Maintenance		Pho. 321-4216	OKC
	3.	TV Technician	Repair		John A. Brown	OKC
	4.	TV Technician	Solid State		Pho. 691-2372	OKC
	5.	CB Technician	Field Service	International Personnel		OKC
	6.	Electronic Technician	2-way Service	International Personnel		OKC

Date & Paper		Title	Description	Agency	Firm	Location
	7.	Electronic Technician	Computerized Control Systems		Pho. 524-8437	OKC
	8.	TV Technician	Color Service	**Same as #2 21 Sept-OKC	1233 SW 29	OKC
	9.	Electronic Technician		Snelling & Snelling	**Same as #5 21 Sept-OKC	OKC
	10.	Maintenance Mechanics	Electronics		Ralston Purina Co.	Edmond
Tulsa World:	1.	Electronic Technician	Solid State		CBSI, PO Box 45009	Tulsa
5 Oct. 75						
Sunday Oklahoman:	1.	CB Technician	Management & Supervisory	International Personnel		OKC
	2.	Electronic Technician		Snelling & Snelling		OKC
Tulsa World:	1.	No ads this week.				
12 Oct. 75						
Sunday Oklahoman:	1.	Radio Repairman	CB Repair		Pho. 525-7537	OKC
	2.	Service Technician	TV Service		Pho. 681-1012	OKC
	3.	Electronic Technician		Snelling & Snelling	**Same as #2 5 Oct-OKC	OKC
	4.	Electronic Technician	Shop Repair	International Personnel		OKC
	5.	Electronic Technician	2-way Radio	Dial Personnel		OKC

Date & Paper		Title	Description	Agency	Firm	Location
	6.	Electronic Technician	Maintenance		PPG Ind.	Wichita, Kansas
Tulsa World:	1.	Electronic Technician		Enterprise Personnel		Tulsa
	2.	Electronic Technician	PC Boards	Johnson Personnel		Tulsa
19 Oct. 75						
Sunday Oklahoman:	1.	Communication Technician	Multiplex		Felex Serv. Inc.	Colorado Springs, Colorado
	2.	TV Technician	Repair		Walt Durham TV	OKC
	3.	Electronic Technician		King Personnel		OKC
	4.	Electronic Field Service Representative		Dial Personnel		OKC
Tulsa World:	1.	Electronic Technician	Schematics	Johnson Personnel		Tulsa
	2.	Electronic Technician	Solid State Repair		Pho. 742-9926	Tulsa
	3.	Electronic Technician		Plaza Personnel		Tulsa
26 Oct. 75						
Sunday Oklahoman:	1.	TV Technician	Repair		PO Box 665	El Reno, Okla.
	2.	TV Technician	Radio Repair	International Personnel		OKC

Date & Paper		Title	Description	Agency	Firm	Location
Tulsa World:	1.	Circuit Board Department Head	Electronic Design		PO Box 45248	Tulsa
	2.	Electronic Technician	Radio Repair		Campbell Auto Radio	Tulsa
	3.	Electronic Technician			TELEX	Tulsa
	4.	Electronic Technician	PC Boards	Johnson Personnel	**Same as #2 12 Oct-Tulsa	Tulsa

VITA

Doyle Keith Craft

Candidate for the Degree of

Master of Science

Thesis: A SURVEY OF CAREER OPPORTUNITIES FOR ELECTRONIC TECHNICIANS IN THE OKLAHOMA CITY AND TULSA AREAS

Major Field: Technical Education

Biographical:

Personal Data: Born in Blackwell, Oklahoma, December 29, 1936, the son of Joe and Henrietta Craft.

Education: Graduated from Deer Creek High School, Deer Creek, Oklahoma, in May, 1954; received an Associate degree from Oklahoma State University with a major in Electronics Technology in May, 1961; received the Bachelor of Science degree from Oklahoma State University with a major in Electronics Technology in May, 1974; completed requirements for Master of Science degree in Technical Education in May, 1976.

Professional Experience: Electronic Technician, Electronics Laboratory Research Foundation, Oklahoma State University, Stillwater, Oklahoma, 1961-1969; Failure Analysis Technician, Ling-Temco-Vaught Corporation, Grand Prairie, Texas, 1969-1970; Electronic Engineer, Electronics Laboratory Research Foundation, Oklahoma State University, Stillwater, Oklahoma, 1970-1976.