

Electronics and Computer Networking Technology Department

Alumni Survey Report

February, 2022

Classes of 2009 – 2021

There were 289 alumni from
2009-2021

There were 90 responses
57 Electronics
33 CNET

Many questions were not answered by
all responders. Details on number of
responders given for each question.

Companies Alumni work for:

Acuity Brands
ADESA Inc
Alcon
Amazon
Army Air Force Exchange Service (AAFES)
Auto Motive Power
Avery Dennison
Aviation Institute of Maintenance - Orlando
Azusa Unified School District
B. Braun Medical Inc.
Callose
Chino Valley Unified School District
City of Lake Elsinore
City Of Los Angeles (LADOT)
Collins Aerospace
Daifuku els
Dorna Robotic's
Dreamhost
DSPM
Excelsior Charter School
Extron Electronics
Fedex ground
Fullerton Joined Unified High School District
Garfield Health Center
Google
Green Wave Ingredients
Hesperia Unified School District
Keysight technologies
LA County Dept of Health Services

LA Metro
Los Angeles County DPSS Information Technology Division
Los Angeles Department of Water and Power
Manley Laboratories
Mentor Language Institute
Mobile TV Group
Montebello Unified School District
Motorcar Parts America
Mt SAC
Navy
Netrix LLC
Northrop Grumman
Orora Packaging Solutions
Pepsico
Pomona Unified School District
Raytheon Technologies
Redwood FCN
Sagent
San Antonio Regional Hospital
San Bernardino County
Soderberg Inc.
Southern California Edison
Spectrum
Stellantis
The Mobile PC Pros
Underwriters Laboratories
United airlines
United States citizenship and immigration
USC
Woods Communications

Job Titles

Electronics Alumni

CNET Alumni

Applications Engineer	Maintenance Specialist
Associate Systems Engineer	Maintenance Technician
Avionics Electrician	Maintenance Technician 3
Communication Technician	Professor
Control Engineering	Quality Assurance and Automation Engineer
Digital Marketing Manager	Radio Systems Analyst
Director of Education	Rail Equipment Maintenance Supervisor
Electrical Engineer	RF Engineer
Electrical Manufacturing Technician II	Robotics Technician
Electrical Technician - Safety Testing	Senior Electrical Engineer
Electrical Test Technician	Service Planner
Electronic Communication Technician	Signal Inspector
Electronic Technician	Signal System Electrician
Elevator Mechanic	Sr Engineer
Engineer	Sr. Systems Engineer I
Engineer in Charge	Technician
Field Technician	Technician II
Firmware Engineer	Telecom Technician
Maintenance	Testing engineering

Computer Repair/Network Technician
Corporate Operations Engineer
End User Computer Technician
Intermediate Clerk
Intern
IT Assistant
IT Field Engineer
IT Support Technician
IT Technical Support Analyst II
Linehaul Coordinator
Network Support Technician
Operations Support Specialist
Owner
Service Desk Operator
Site Tech
Tech Analyst
Technical Support Engineer
Technology III
Technology Specialist
Technology Support Specialist

Program Statistics

92% successful job placement in the Electronics and Computer Networking field upon graduation.

94% of alumni say completing our program was worthwhile to them. This includes alumni who never got a job in a related field after graduating.

90% of alumni report being either satisfied (26%) or extremely satisfied (64%) with the job they have.

87% of alumni say the knowledge gained through our program was either very useful (20%) or extremely useful (67%) in obtaining their job.

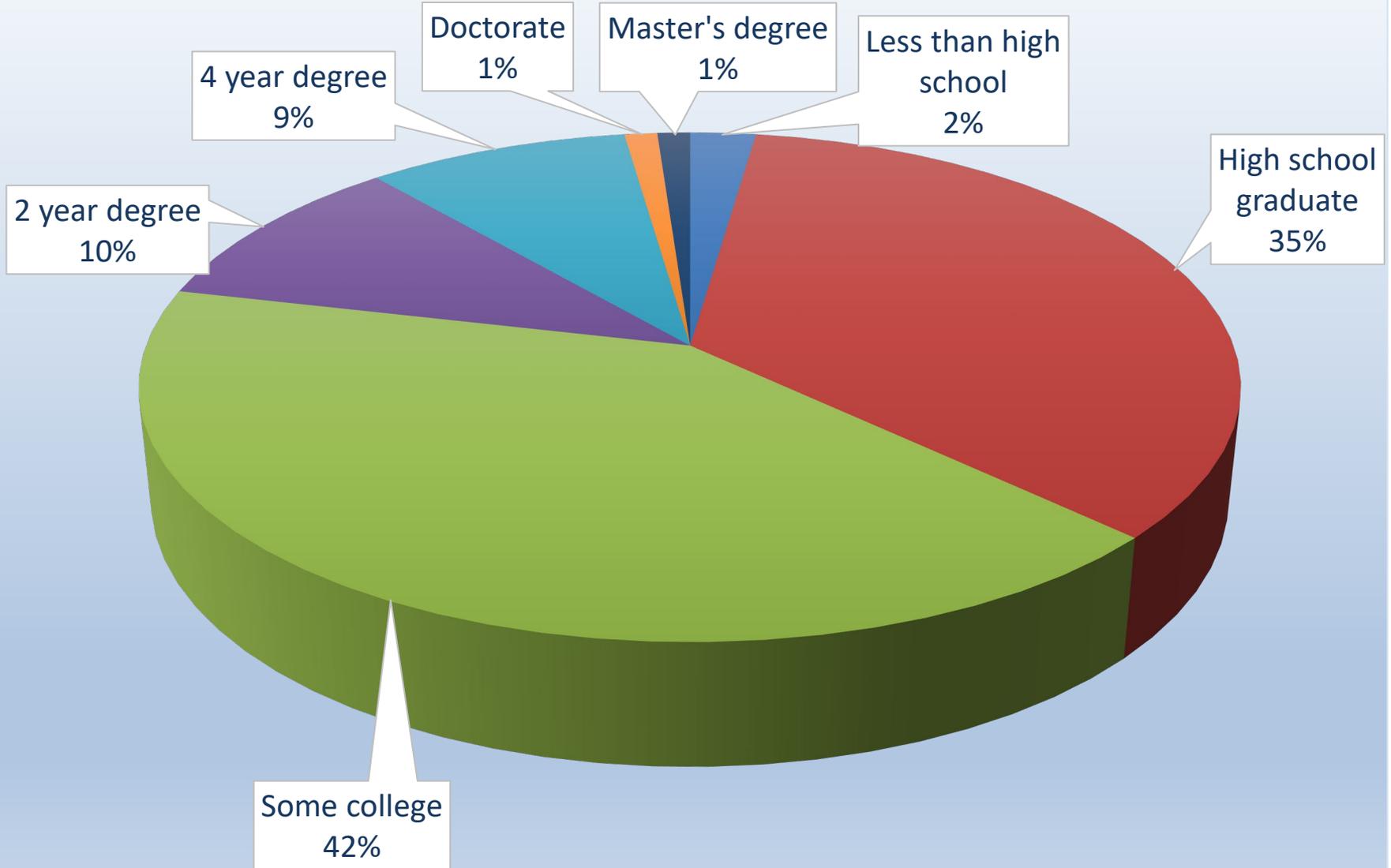
78% of alumni report being able to answer EVERY SINGLE technical question in an interview.

Other Statistics

- Average alumni salary \$78k, and average hourly is \$35/hr. (These are wages in position currently held)
- 10% of students coming into our program already have a 4-year degree.
- 90% of jobs in this field require evidence of completed electronics courses.
- Only 15% of people work independently by themselves.
- 60% of alumni are hourly, 40% are salary employees.
- $\frac{2}{3}$ of jobs require a clean criminal record or pass a drug test or background check.
- 70% of jobs do not require any traveling. (Very little for the remaining 30% percentage.)

Electronics and CNET Alumni

Education Level Prior to Entering Program



What was the subject area of your previous college degree?

Radio/TV/Film

Hotel and Restaurant Management

Electronic Engineering

Psychology

Water Technology

Sociology

Liberal Arts

Electronics and computer engineering

Communications

Engineering management

Business Admin

Liberal Arts

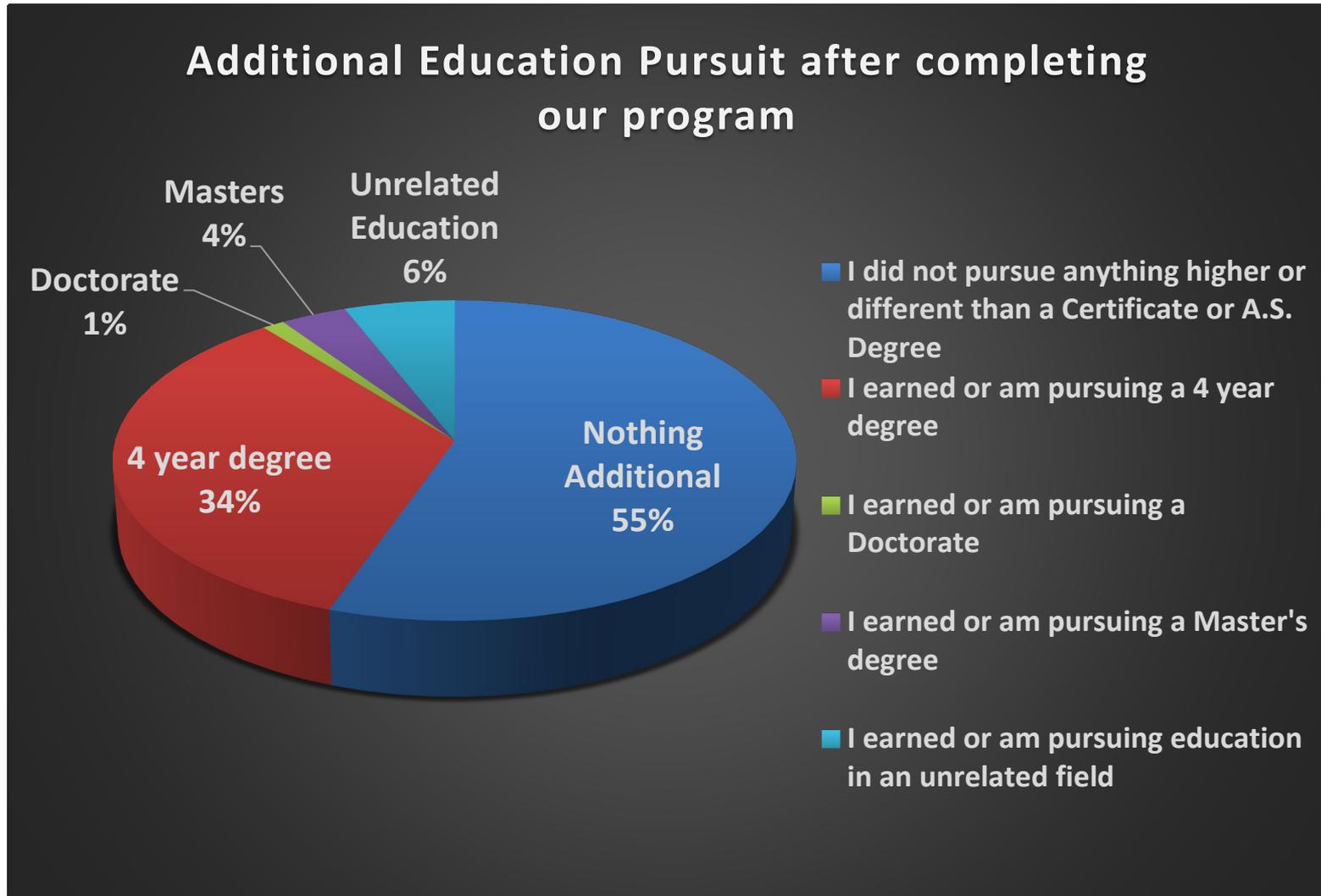
ISF

Communications RF

Fire Technology

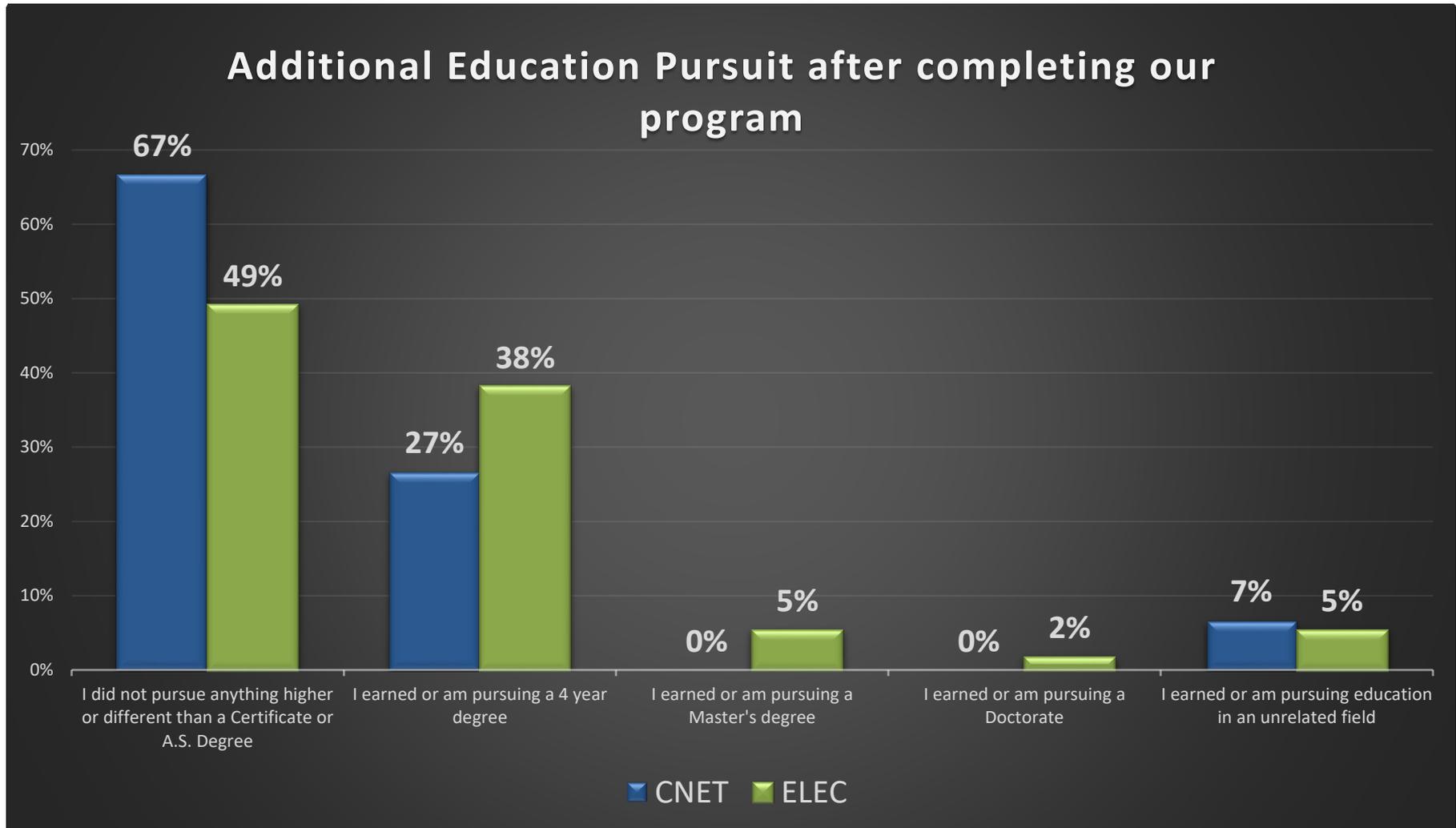
Electronics and CNET Alumni

Did you pursue any additional education after completing our program?

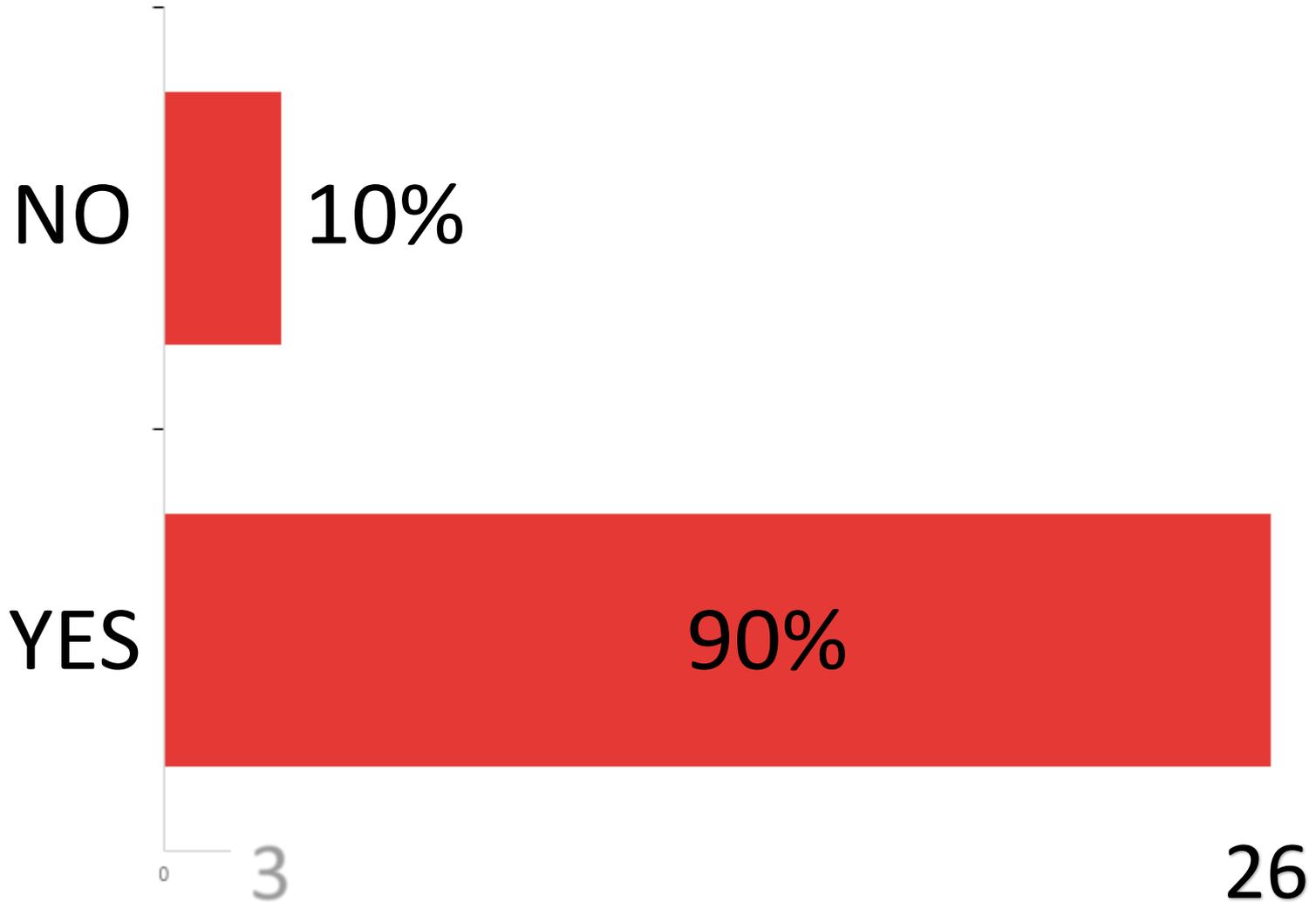


Electronics and CNET Alumni

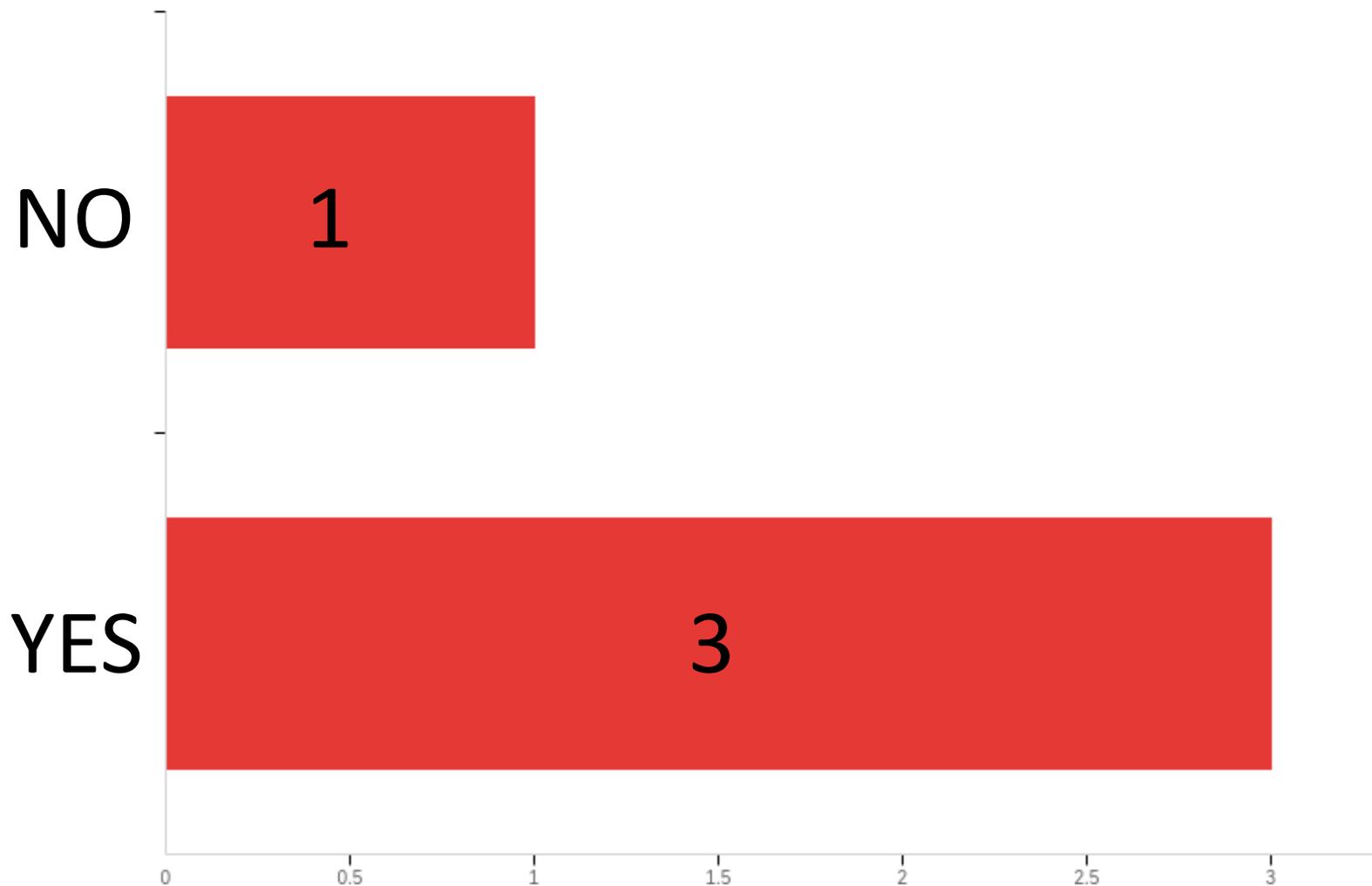
Did you pursue any additional education after completing our program?



For those pursuing a 4 year degree after completing our program, will it be in a field related to electronics or computer networking?

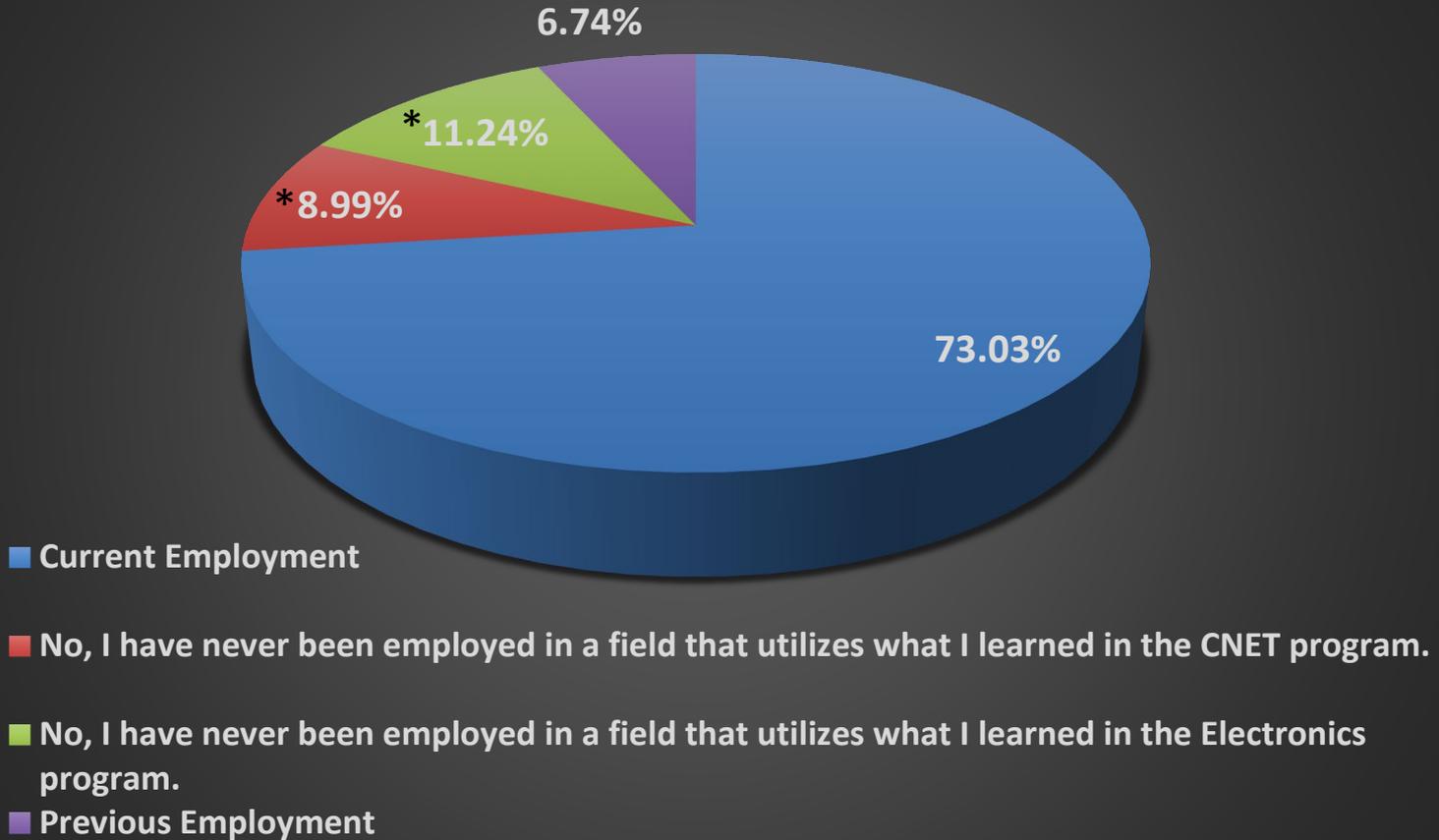


Is the master's degree you pursued after completing our program in a field related to electronics?



Is your current or any previous employment in a field that utilizes what you learned in our program?

Electronics and CNET Alumni



*12 out of the 20% of students (red and green above) who were never employed within a related field, either are still pursuing a bachelors degree, or never tried applying for a related job.

What has prevented you from getting a job that utilizes your skills in Electronics?

What has prevented you from getting a job that utilizes your skills in Electronics?

I have become self employed.

Accepted an entry level job with Los Angeles Metro, waiting for a technician position to open up.

Moved; applied to a few electronics jobs with no luck ;plan to start again

Opportunity.

Procrastinating and just making resume, not enough confidence

Resume

I am currently on my last year at Cal poly Pomona completing my bachelors in electronics systems, so hopefully within a year I will be landing a job.

Military benefit limits

Moving to a different country introduced new challenges I must get past before getting a job in the field

I was offered a position in construction.

What has prevented you from getting a job that utilizes your skills in Computer Networking Technology?

What has prevented you from getting a job that utilizes your skills in Computer Networking Technology?

I took the classes to enable me to make knowledgeable decisions on investing in tech-related fields

Job experience and lacks connections

Ptsd hard to focus

Bachelors degree

I ended up employed in the Security Industry installing Access Controls Commercially. I love my job, I've been working with the same company for about 9 years now. My job has taken me to installing systems for companies like Amazon, Intel, Reagan Library, Apple and several Southern California Cities like Santa Monica, Orange, Tustin and Thousand Oaks. Our installations includes systems for city halls, libraries and police stations. Our systems include cameras and access controls.

A+ CERTIFICATE AND JOB EXPERIENCE

After completing the CNET program i had a change of interest.

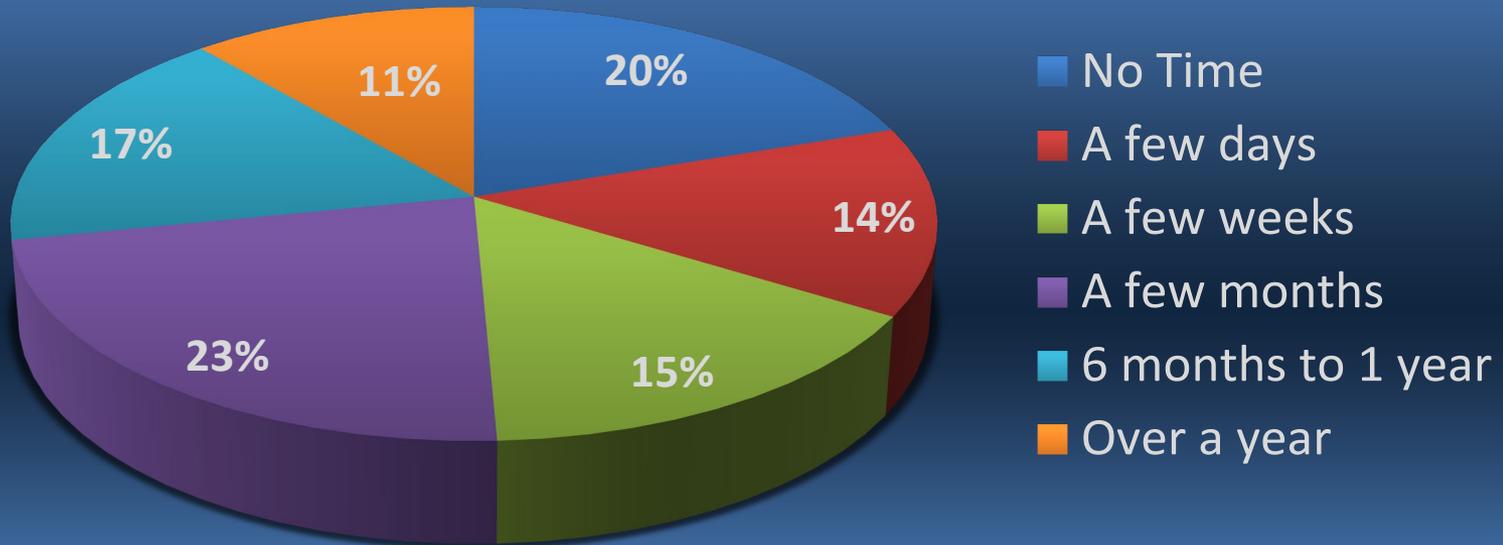
Electronics and CNET Alumni

How did you find your job?

Job search website like Indeed.com or other similar sites	44%
Through an acquaintance	26%
I learned of an employment opportunity through Mt. SAC or someone I met through Mt .SAC	14%
I worked at this job or company before starting the Electronics or Computer Networking program	8%
Recruiter	4%
Career Fair	3%
Veterans Program	1%

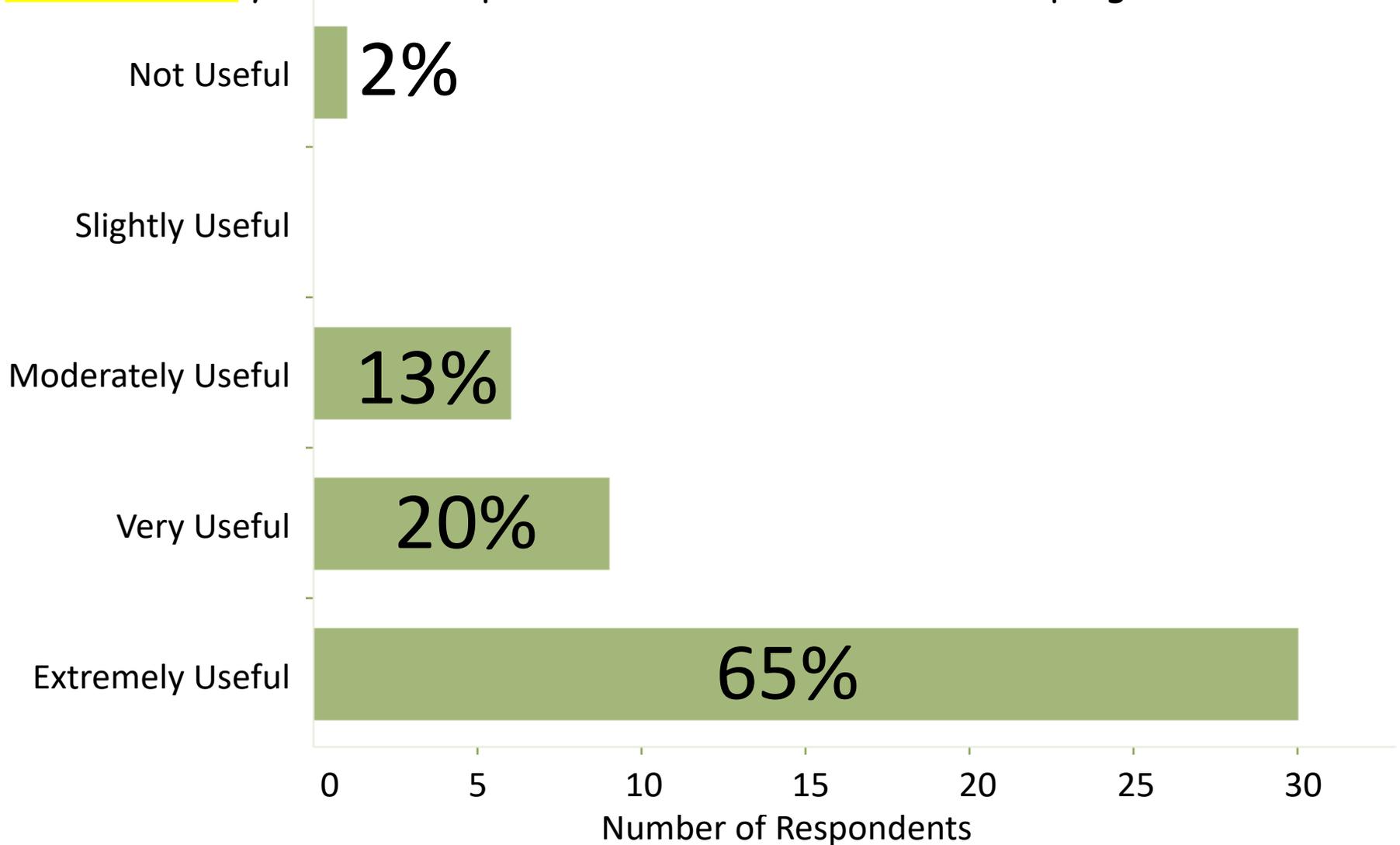
Electronics and CNET Alumni

Length of time it took to find a job.



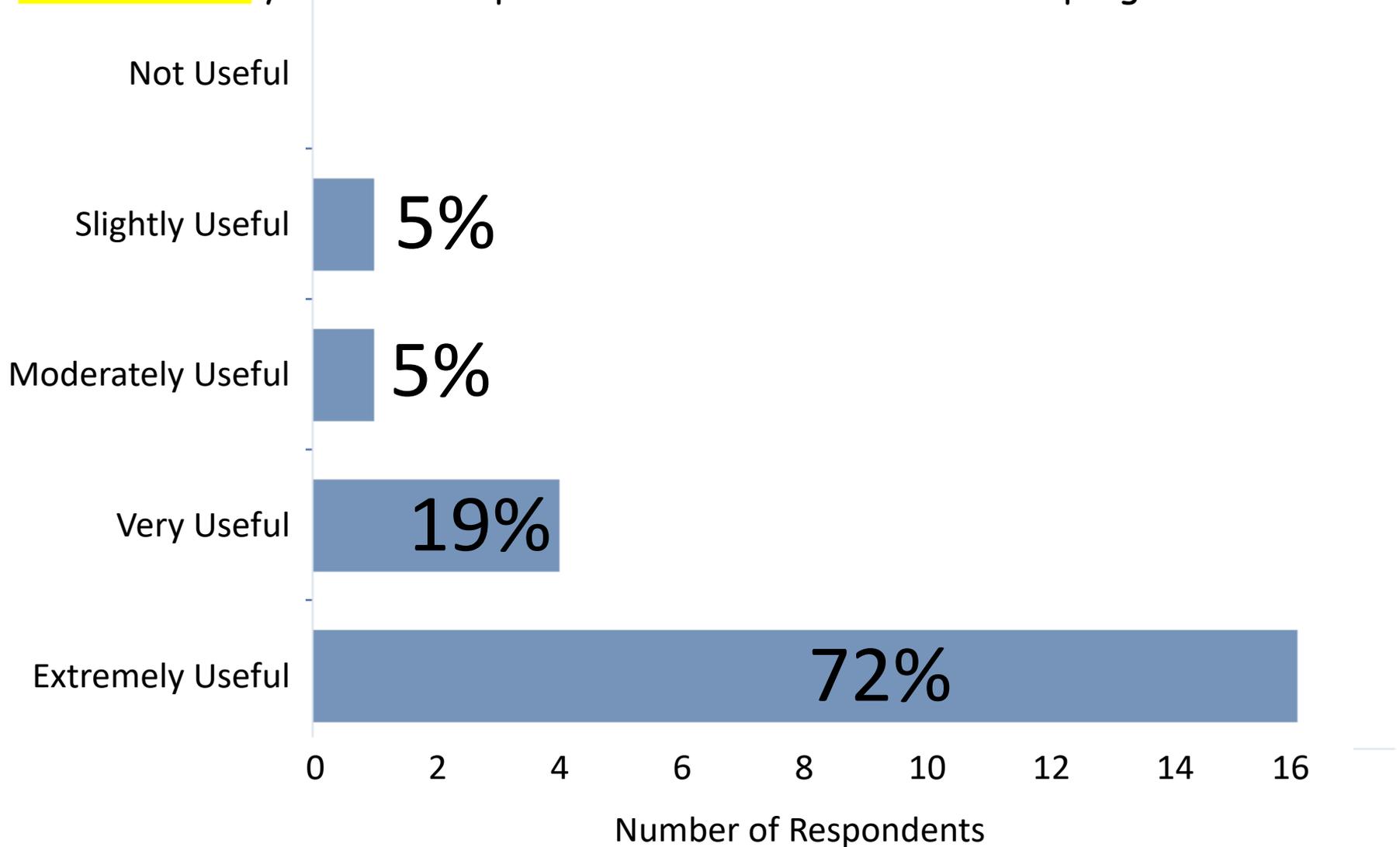
Electronics Alumni

Please rank the usefulness of the knowledge you learned from our program in **OBTAINING** your current position in a related field to our program.



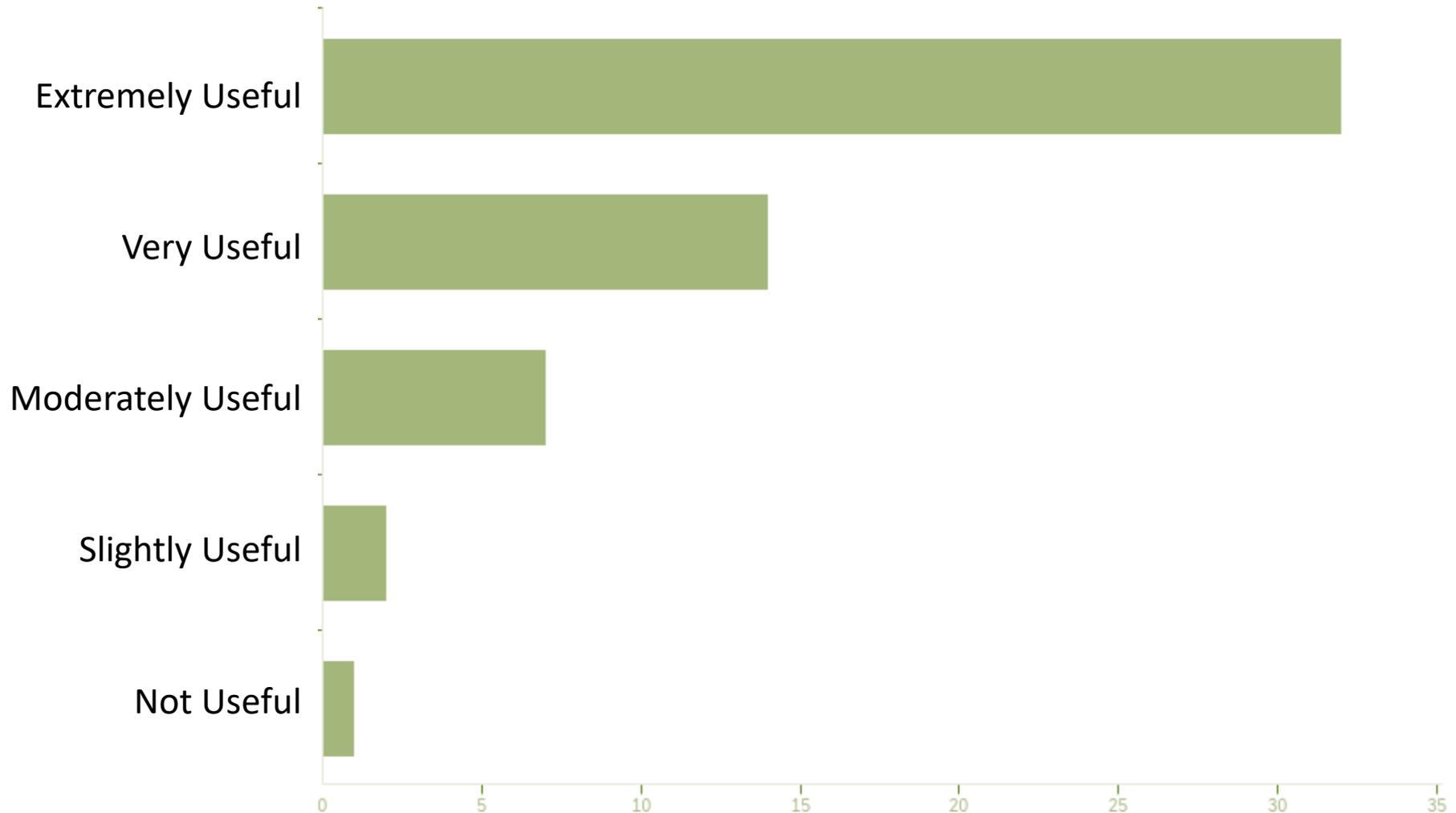
CNET Alumni

Please rank the usefulness of the knowledge you learned from our program in **OBTAINING** your current position in a related field to our program.



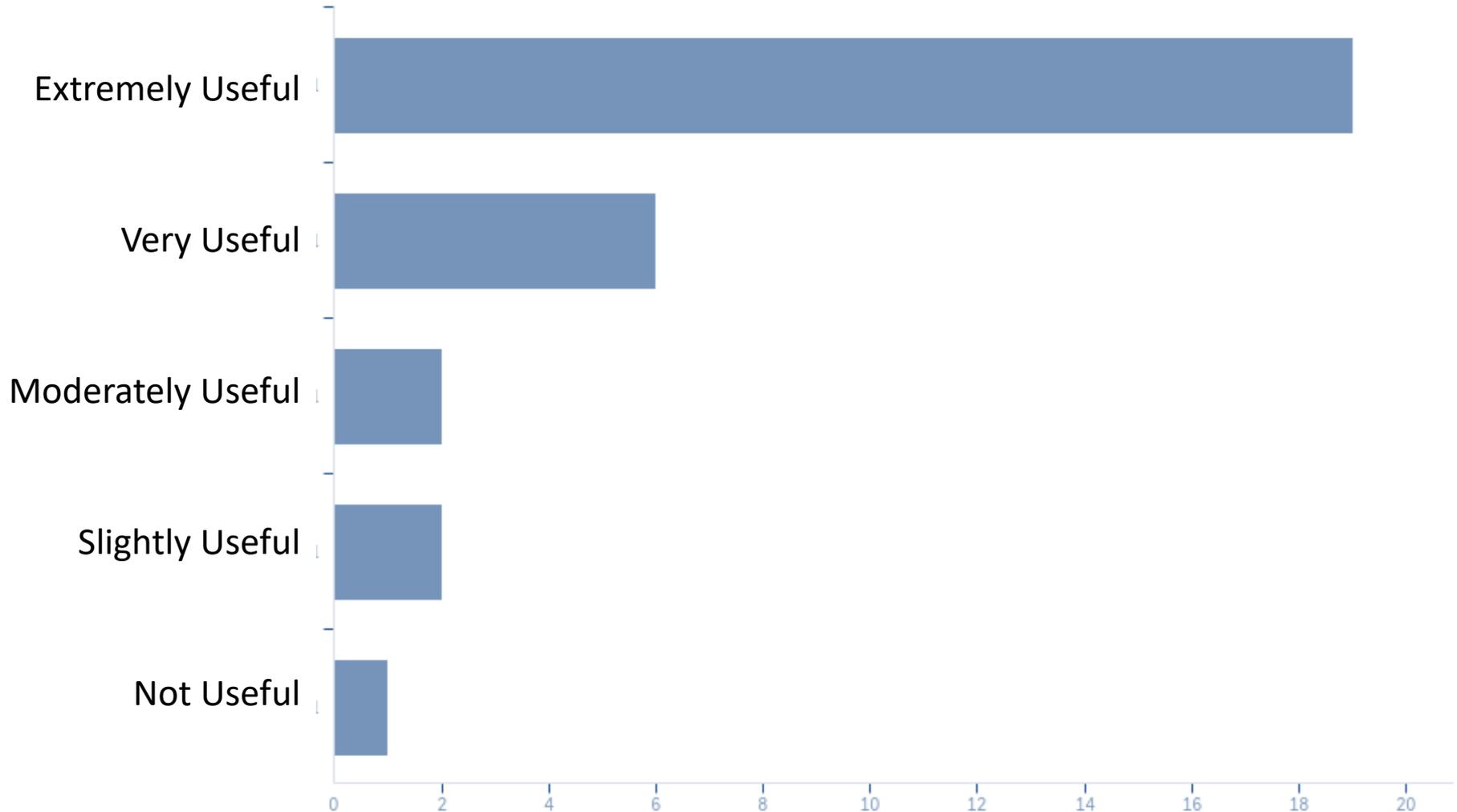
Electronics Alumni

Please rank the usefulness of the knowledge you learned from our program in **EXCELLING** your current position in a related field to our program.



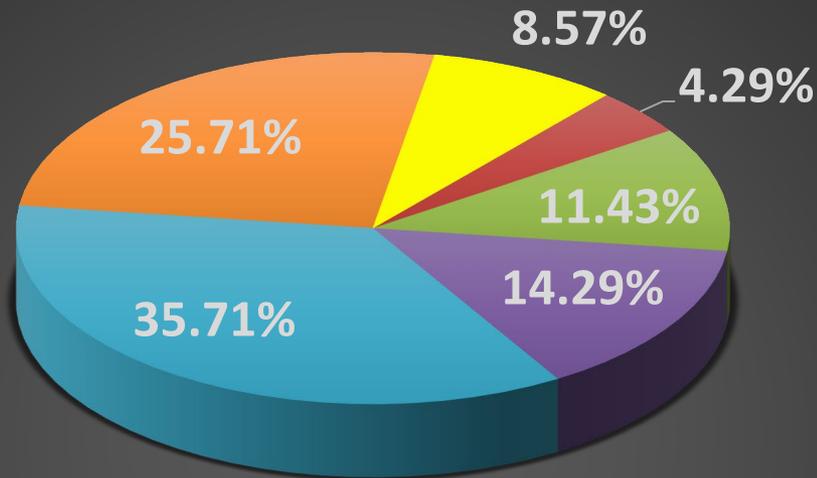
CNET Alumni

Please rank the usefulness of the knowledge you learned from our program in **EXCELLING** your current position in a related field to our program.



Electronics and CNET Alumni

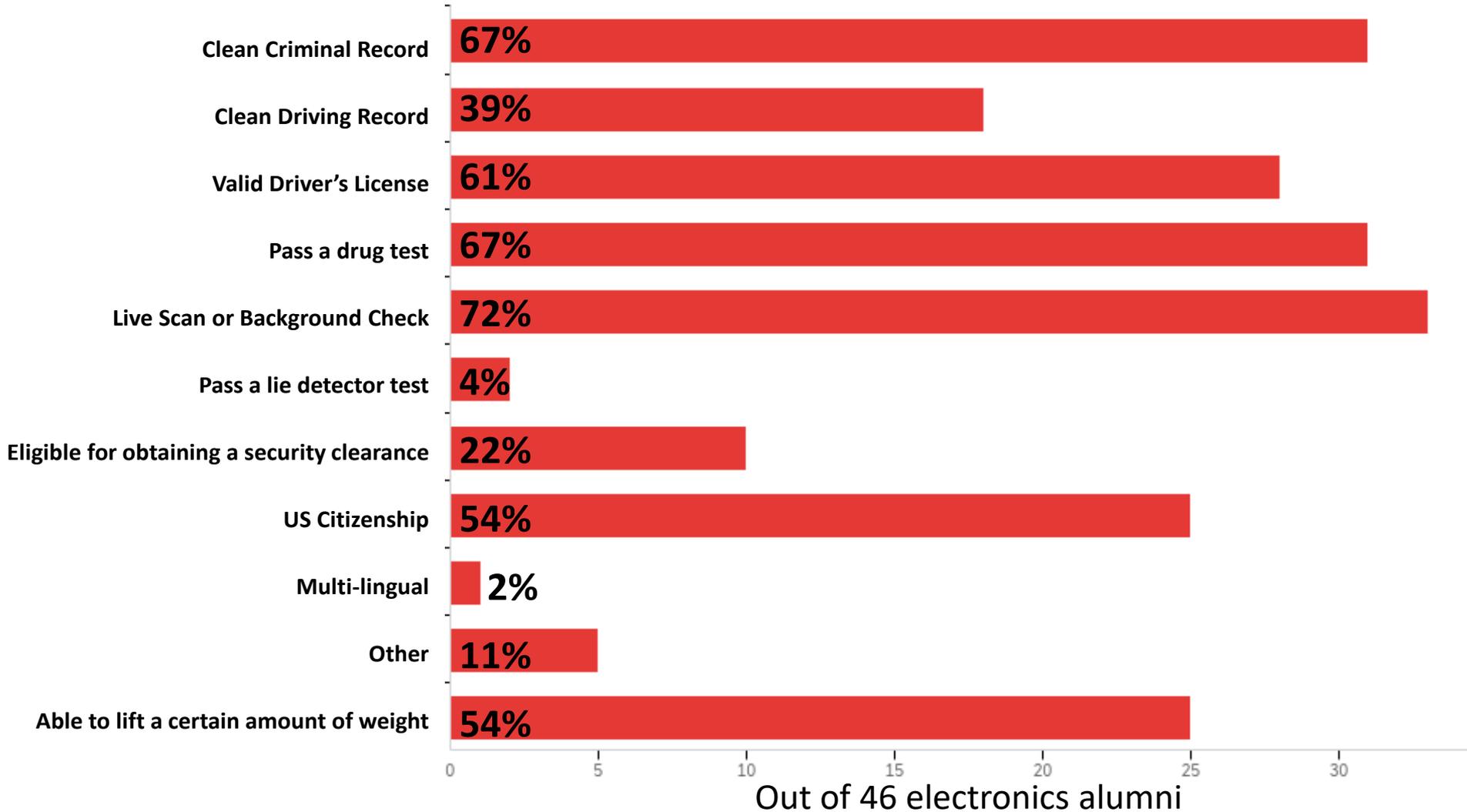
What educational requirements were there to obtain your position



- No classes were necessary. I could have gotten this job without doing any ELEC or CNET classes
- Evidence of only a few CNET classes to get this job
- Evidence of only a few electronics classes to get this job
- I needed a minimum of a certificate to get the job
- I needed a minimum of a A.S. degree (2 year degree) to get this job
- I needed a minimum of a B.S. degree (4 year degree) to get this job

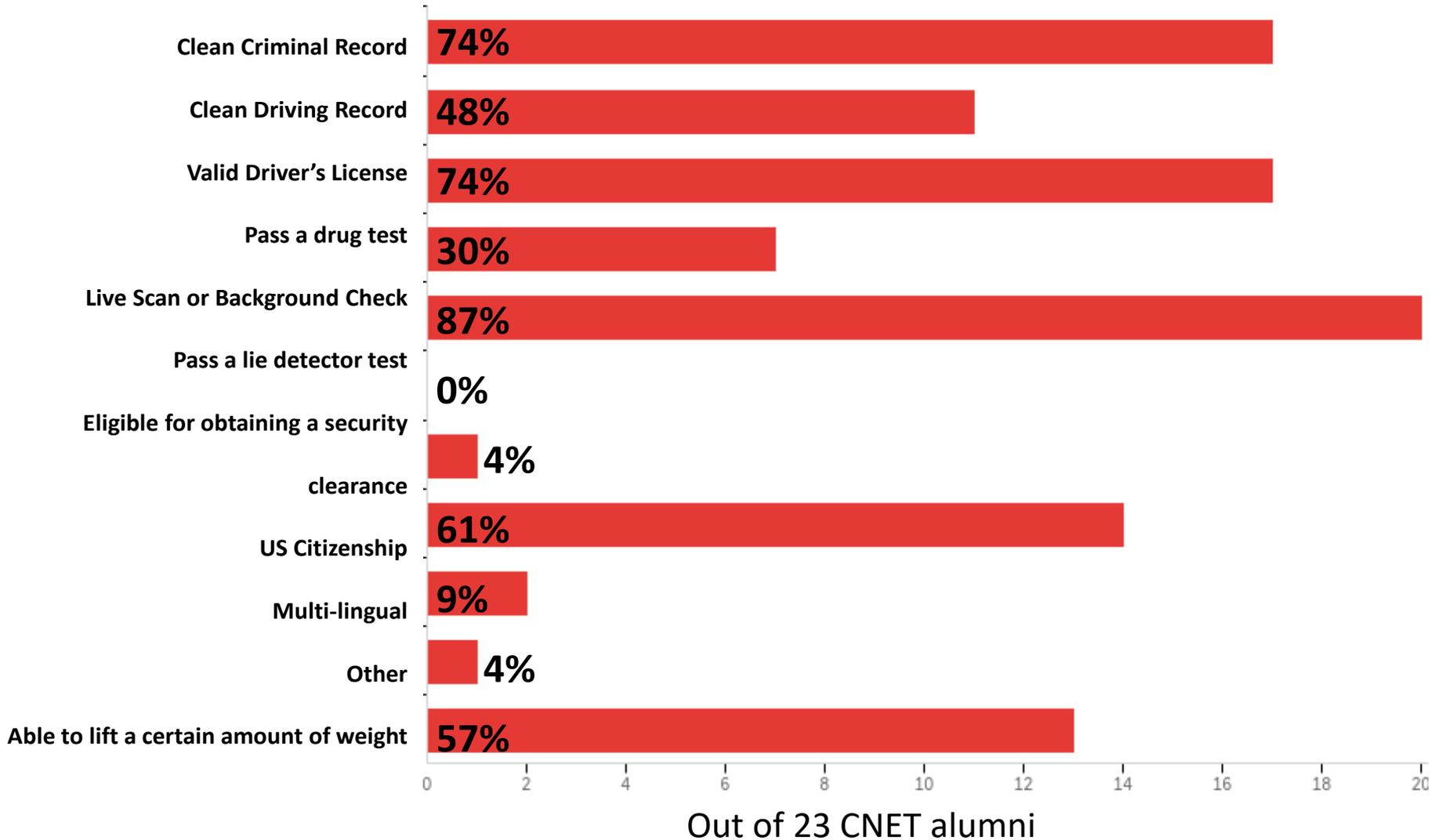
Electronics Alumni

Please select the legal job requirements (not related to education) for your specific job. (Select ALL that apply)



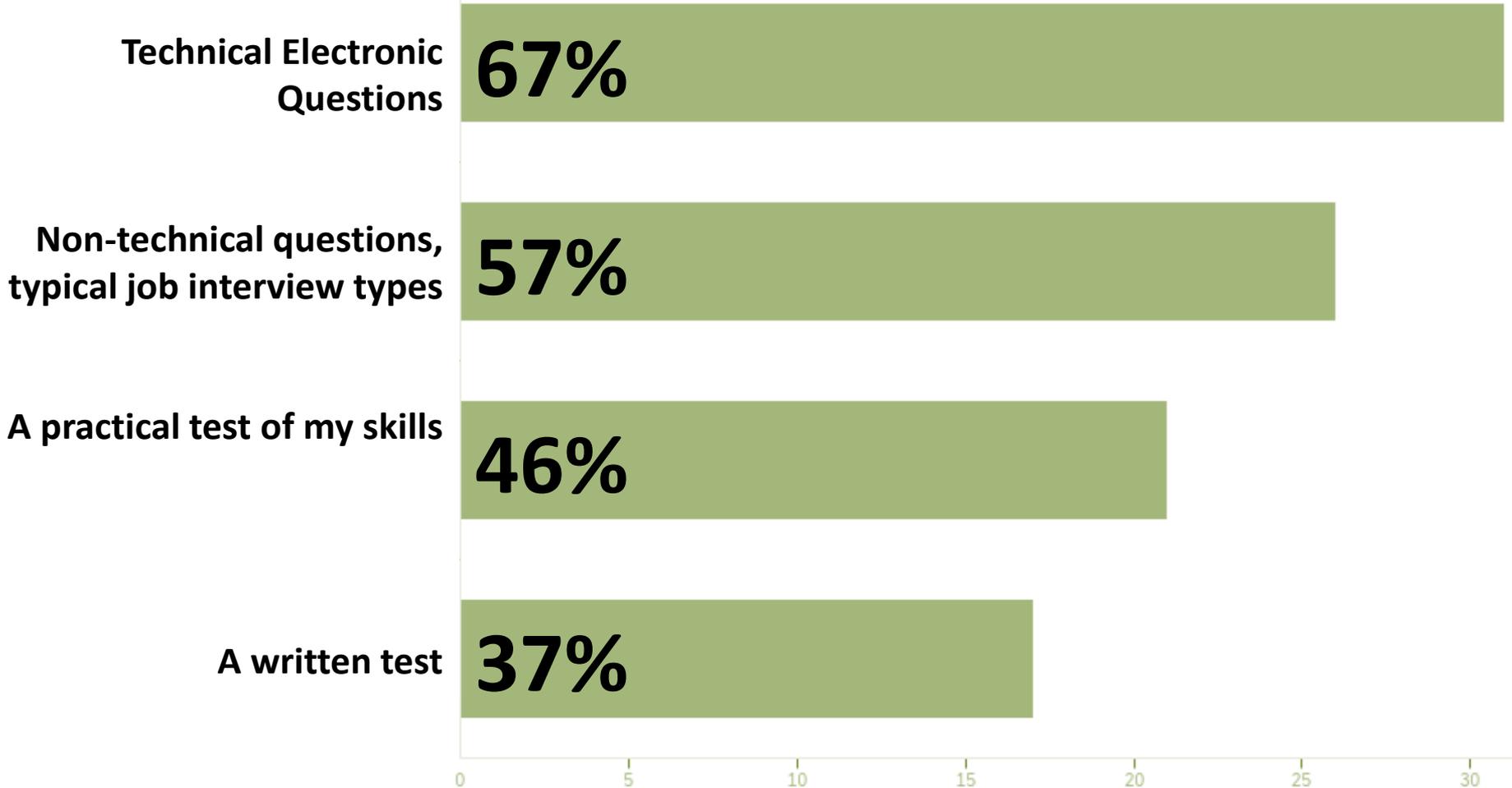
CNET Alumni

Please select the legal job requirements (not related to education) for your specific job. (Select ALL that apply)



Electronics Alumni

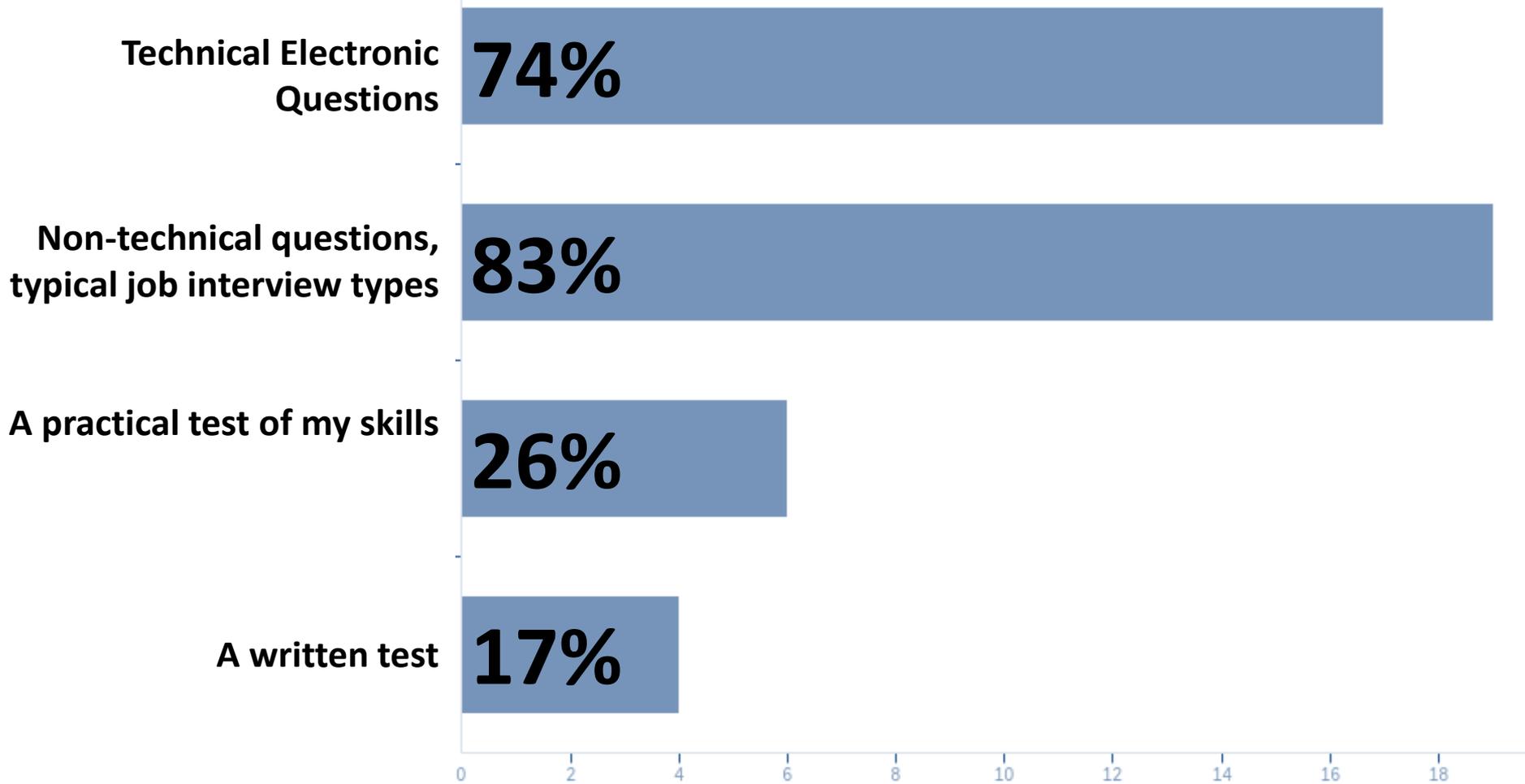
What did you encounter when you interviewed for this position?
(Select ALL that apply)



Out of 46 electronics alumni

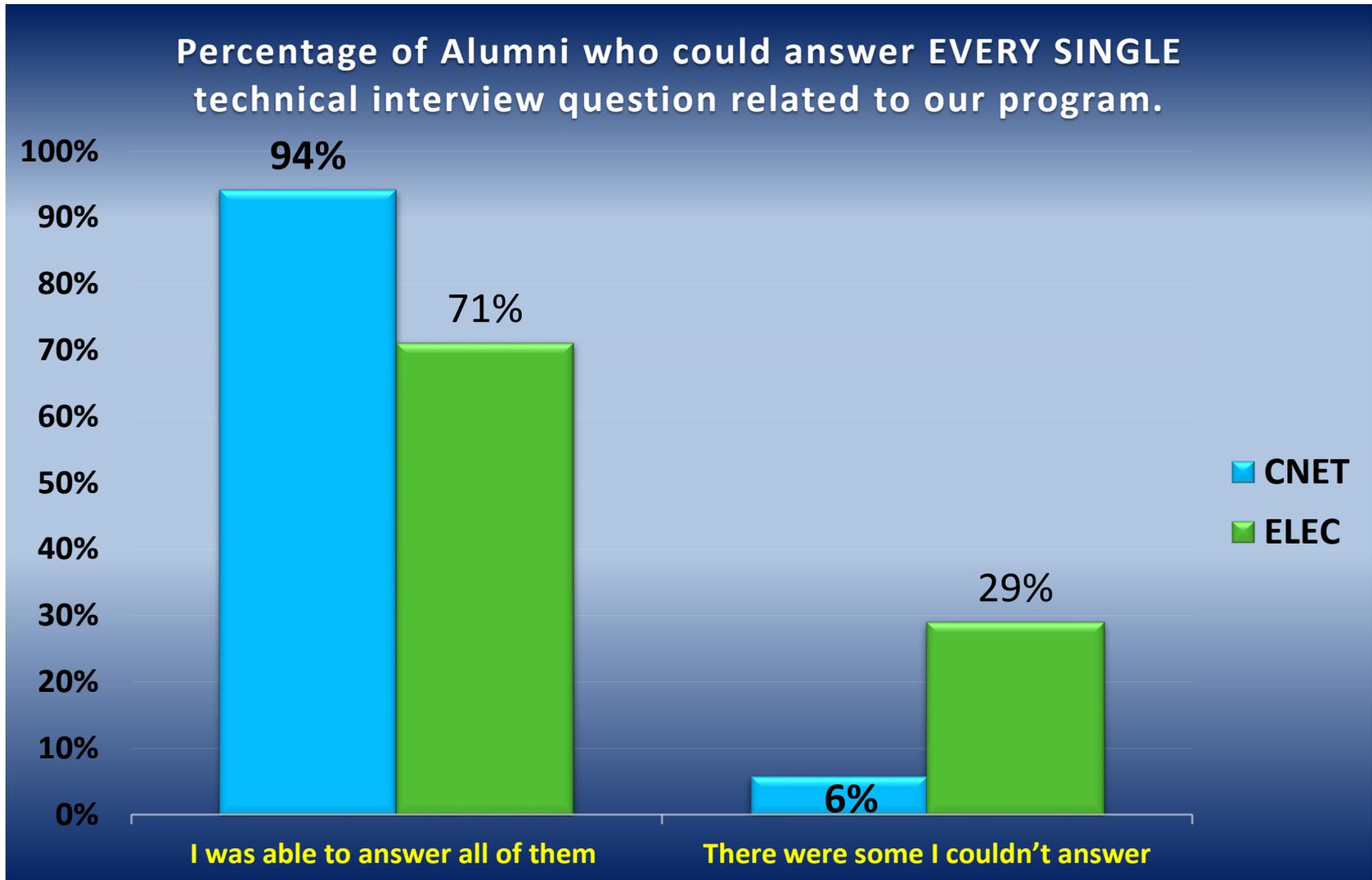
CNET Alumni

What did you encounter when you interviewed for this position?
(Select ALL that apply)



Out of 23 CNET alumni

Were there any technical interview questions that you were not able to answer?



Electronics Alumni

Can you state a technical question that an applicant for position like yours should be able to answer at a job interview?

If you don't have the correct fuse can you replace it with a lower current rated fuse temporarily?

“Explain VSWR, what it is and why it’s important to control”

Train parts identification

What are the primary colors of the 25-pair color code?

What is the most effective way to measure the success of a paid search campaign.

In order to be qualified for this position you need to know every piece of equipment on the truck and how it runs. This is not an entry level job you need at least 5 years of experience.

Can you describe you experience with low pass, high pass, and band pass filters?

Electronics Alumni

Can you state a technical question that an applicant for position like yours should be able to answer at a job interview? (cont.)

Based on a schematic/ blue print reading: how many conductors would it take to power up the traffic signal heads/equipment on a specific traffic pole shown on the print.

Describe fundamentals of power supply. Describe how a stepper motor works. A basic programming question, what is a global variable?

How much current does a 60 hp 3 phase motor pull at 460v, what size wire and conduit would it require for a 20 ft run ?

Know ohms law, ladder safety, basic math

What is ohms law?

What is antenna sweeping and how to do it

What is the main electronic device used in a balanced audio circuit? (Op-Amp)

If I have a radio system with a normal output of 100 watts and a technician tells me he just measured it and it's 3db low. What's the output? And what's possibly wrong?

Amazon uses the STAR way interview system.

Electronics Alumni

Can you state a technical question that an applicant for position like yours should be able to answer at a job interview? (cont.)

Recognize schematic symbols

Are perpetual motion machines real?

You should be able to talk about your experience with using electronic test equipment and tools such as Multimeters, Audio Analyzers, soldering irons, Computers, etc

Difference between circuit breaker and a fuse

Just general knowlege about soldering, fabrication and assembly

Electrical theory questions along with hypothetical questions about field scenarios

What avenues of troubleshooting do you take?

Name the electronics component indicated

Must pass multiple skills assessment tests.

Digital and analog symbols. Interpreting wire schematic and knowing how to use the fluke meter

Electronics Alumni

Can you state a technical question that an applicant for position like yours should be able to answer at a job interview? (cont.)

Explain a VNA and smith chart.

What does a volatile keyword do in C? And other miscellaneous coding questions

State what you learned in your field of study, and how it will help in this position.

Would your previous co-workers/supervisor describe you as a leader?

Can you explain what a Fourier Transform actually does?

What is your method to do electronic troubleshooting?

Check if weird is palindrome or not in python

What is a PNA how does it relate to network analysis

What is the difference between normally closed and normally open relays?

Balanced vs unbalanced audio

Back and forward move motors automatically

CNET Alumni

Can you state a technical question that an applicant for position like yours should be able to answer at a job interview?

Networking questions specifically VLANs

Issues relating to network outages

PING an address, proper troubleshooting skills

How would you begin to diagnose a desktop that doesn't turn on?

"Tell me about a time when an employee came to you with a technical issue."

How to fix a computer if the internet goes out on that specific computer only.

What is DNS and what are the functions

Describe the OSI model.

What is DHCP and what is it for?

What to do first when someone is having issues with their internet.

CNET Alumni

Can you state a technical question that an applicant for position like yours should be able to answer at a job interview? (cont.)

If you encounter an IP address of 127.0.0.1 on a device that is not receiving an internet connection, what should you do?

How do you add a printer to a Mac device?

What experience do you have supporting productivity applications to end-users? For example, Microsoft Office or Google G-suite

Since it was an entry level position there were not any technical questions to answer. But I did explain that I was able to work on hardware and troubleshoot from my time during the CNET program.

Basic knowledge of Email. What is SMTP, POP3, IMAP?

The CNET program will give you all of the skills necessary to run and maintain a computer lab. Don't be afraid to apply and pass your knowledge down to others. It is a very rewarding experience!

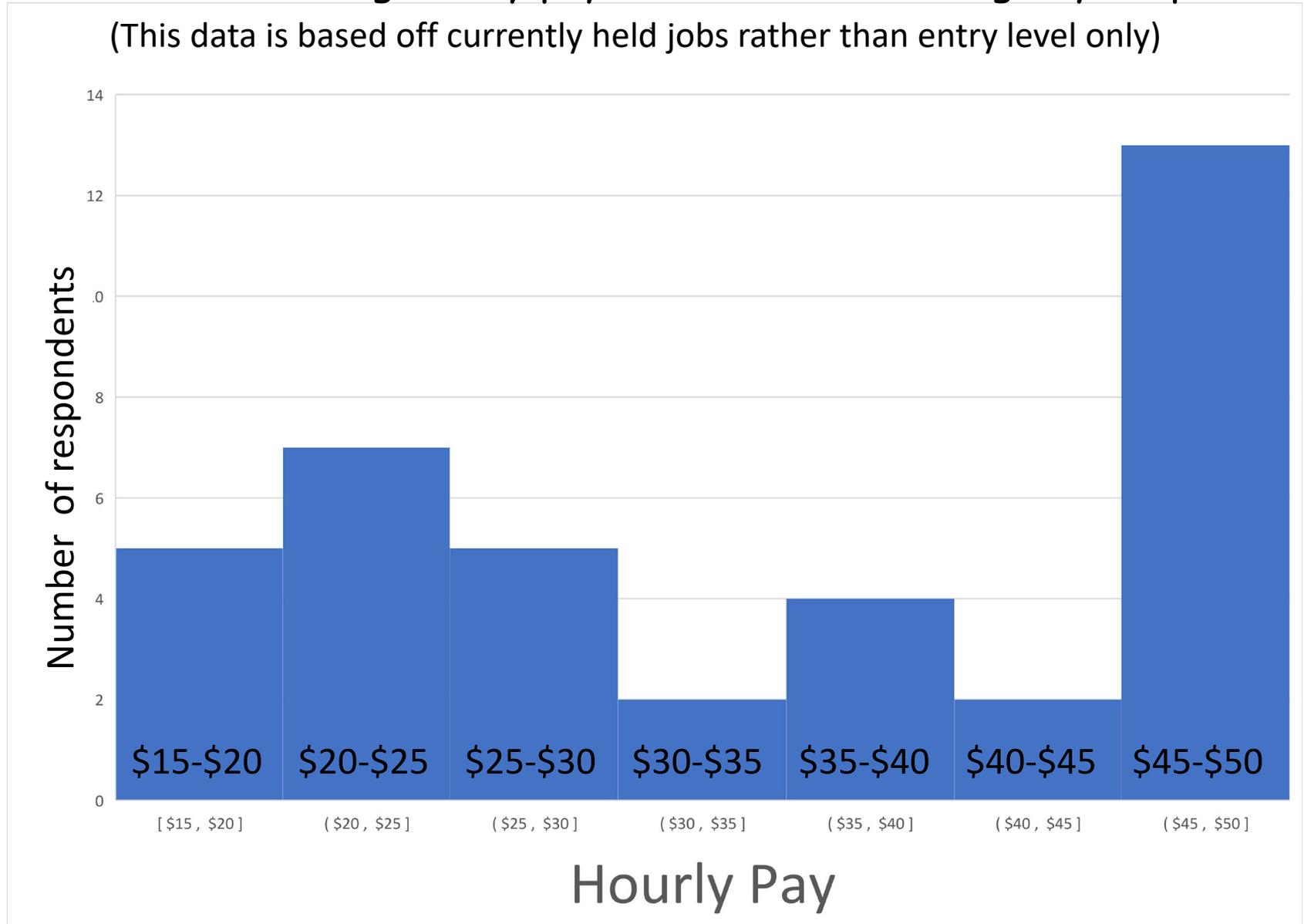
What is Active Directory?

What is the process of a DHCP handshake?

Electronics and CNET Alumni

What is the starting hourly pay for someone working in your position?

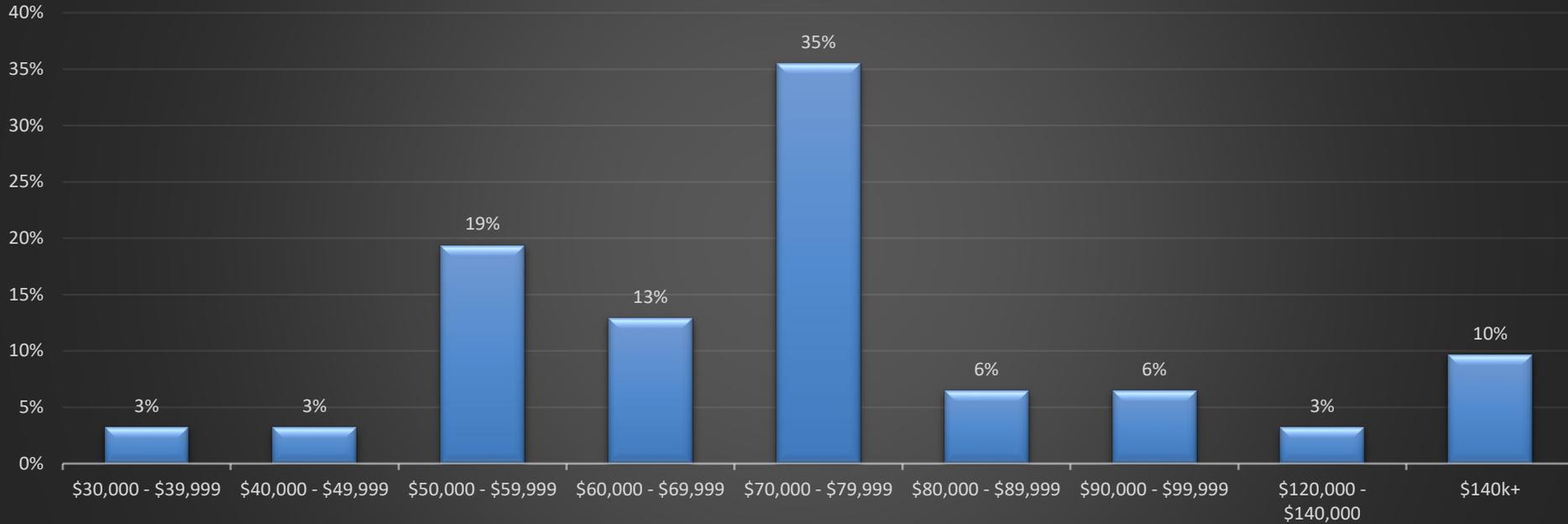
(This data is based off currently held jobs rather than entry level only)



Electronics and CNET Alumni

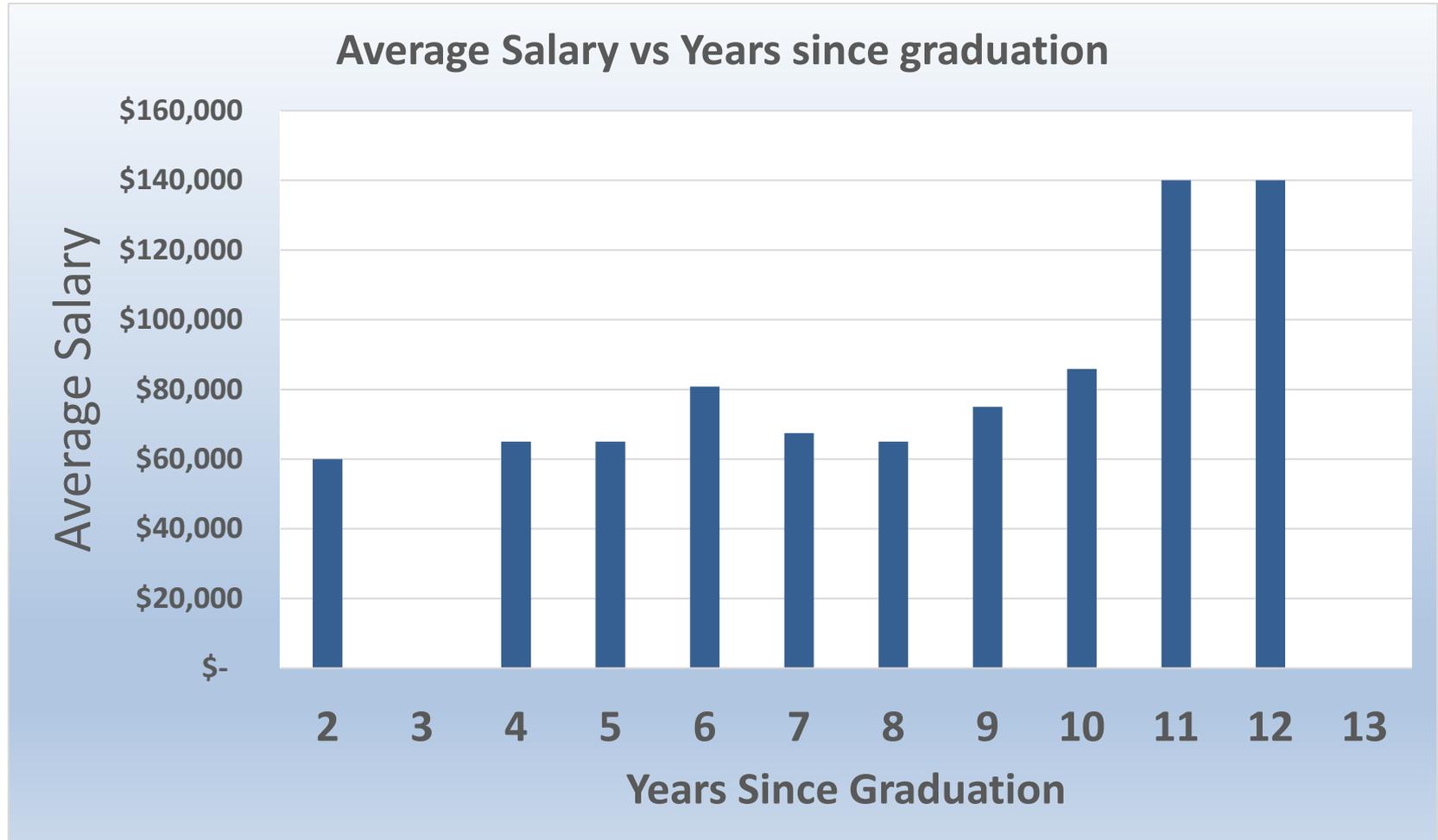
What is the expected starting salary of someone working in a similar position (excluding overtime)?

This salary is based off currently held jobs rather than entry level only

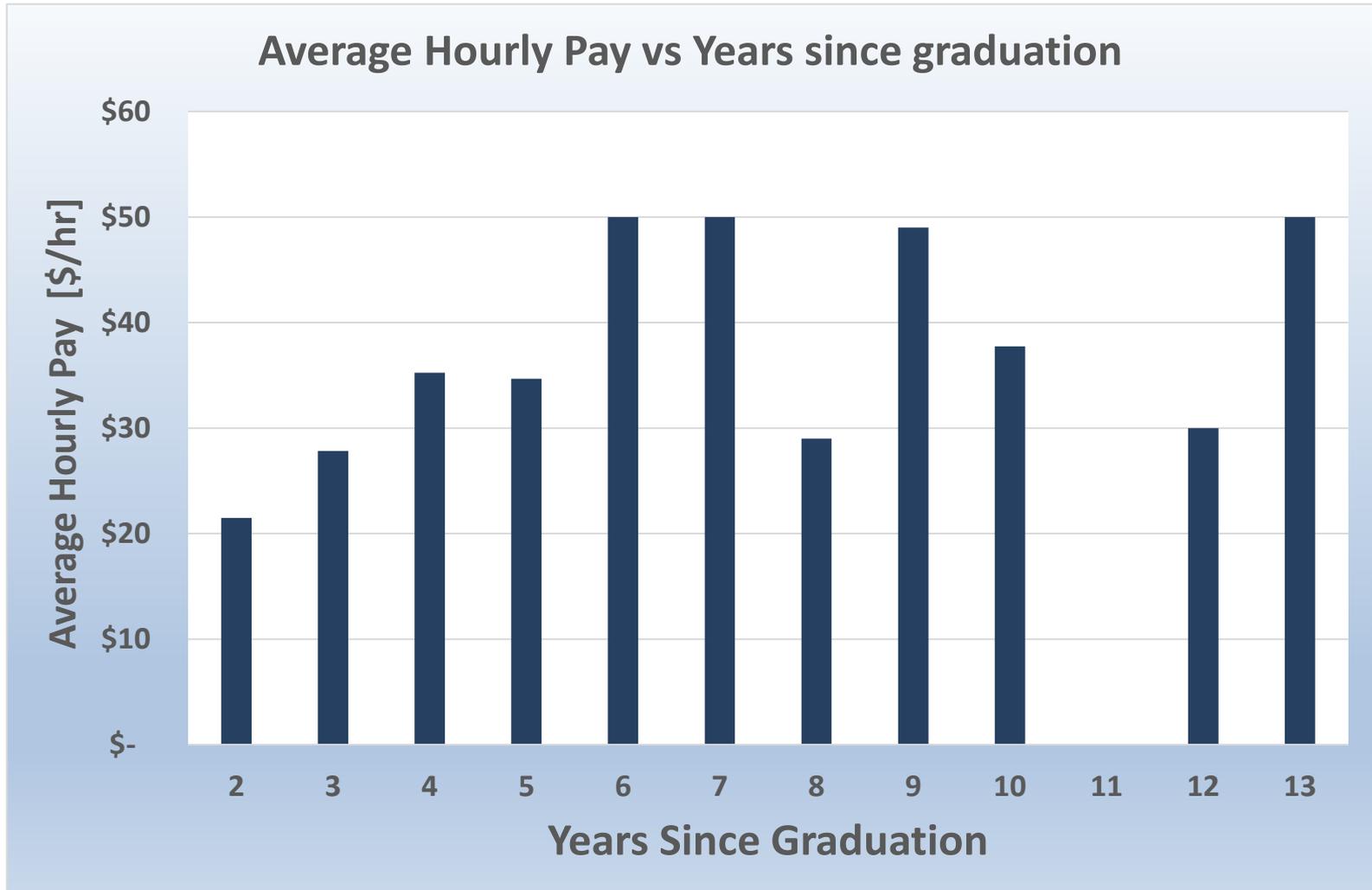


Electronics and CNET Alumni

Salary Info

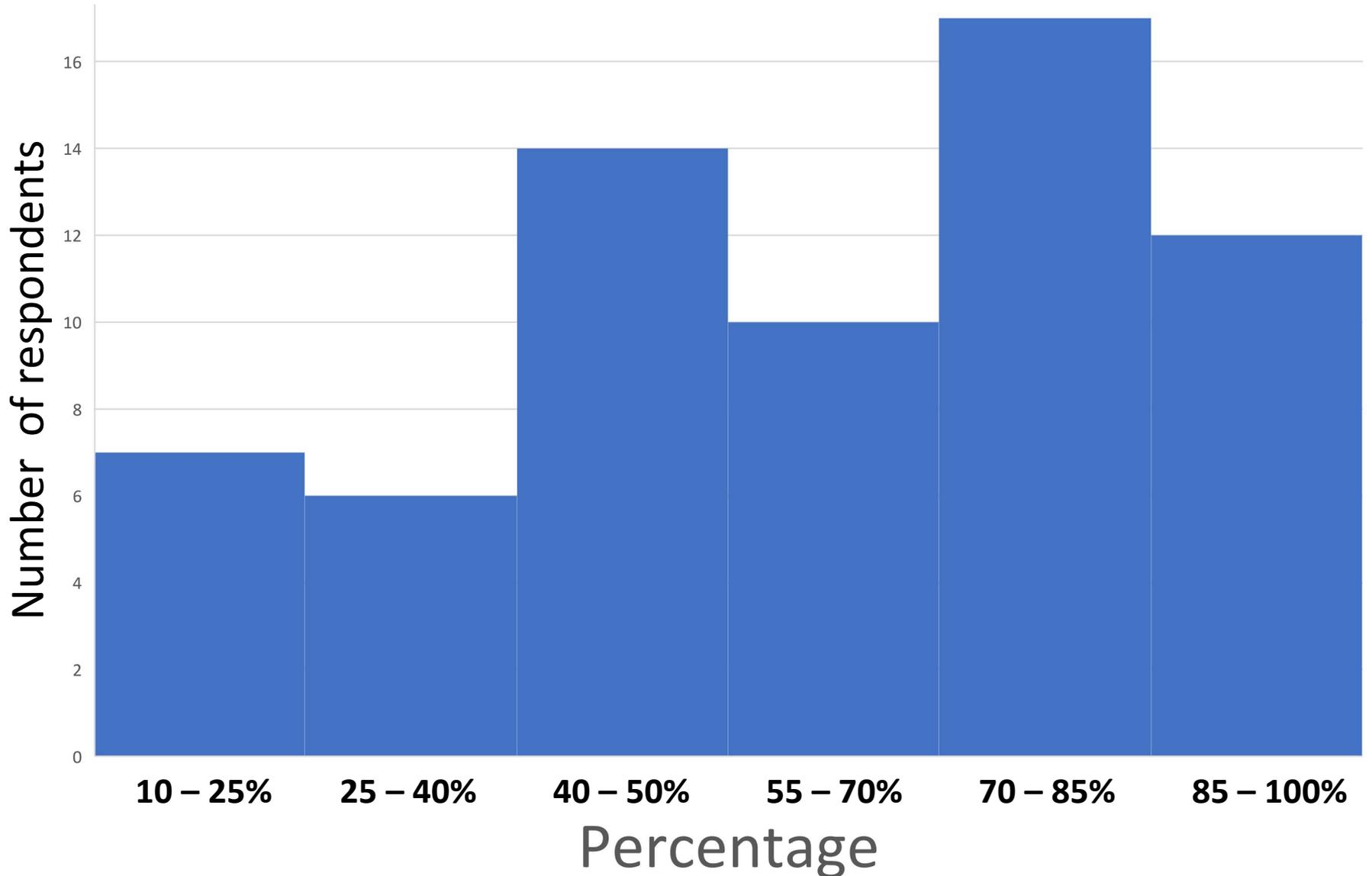


Electronics and CNET Alumni Salary Info (cont.)

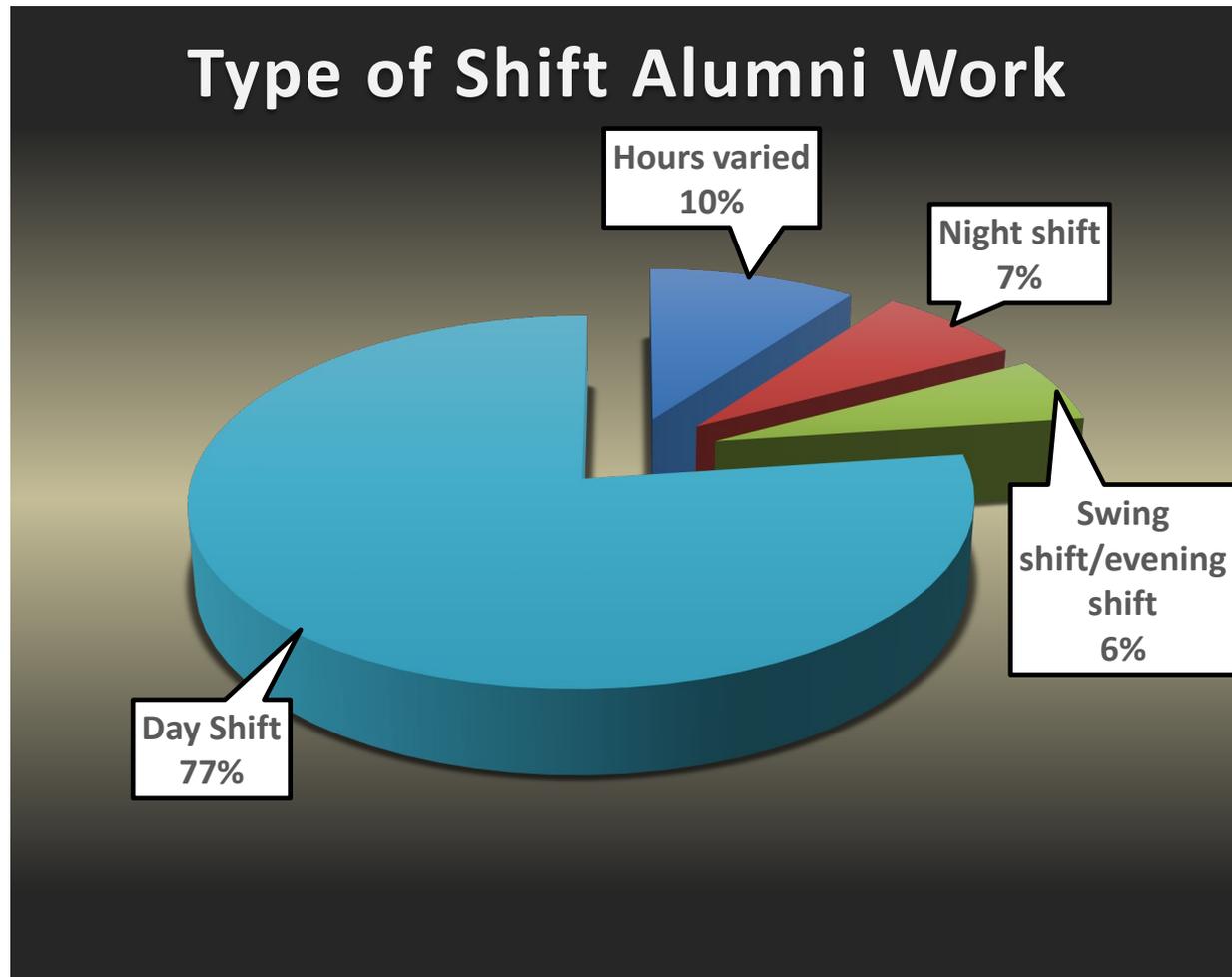


Electronics and CNET Alumni

What percentage of your job duties did you already know how to do because of our program?

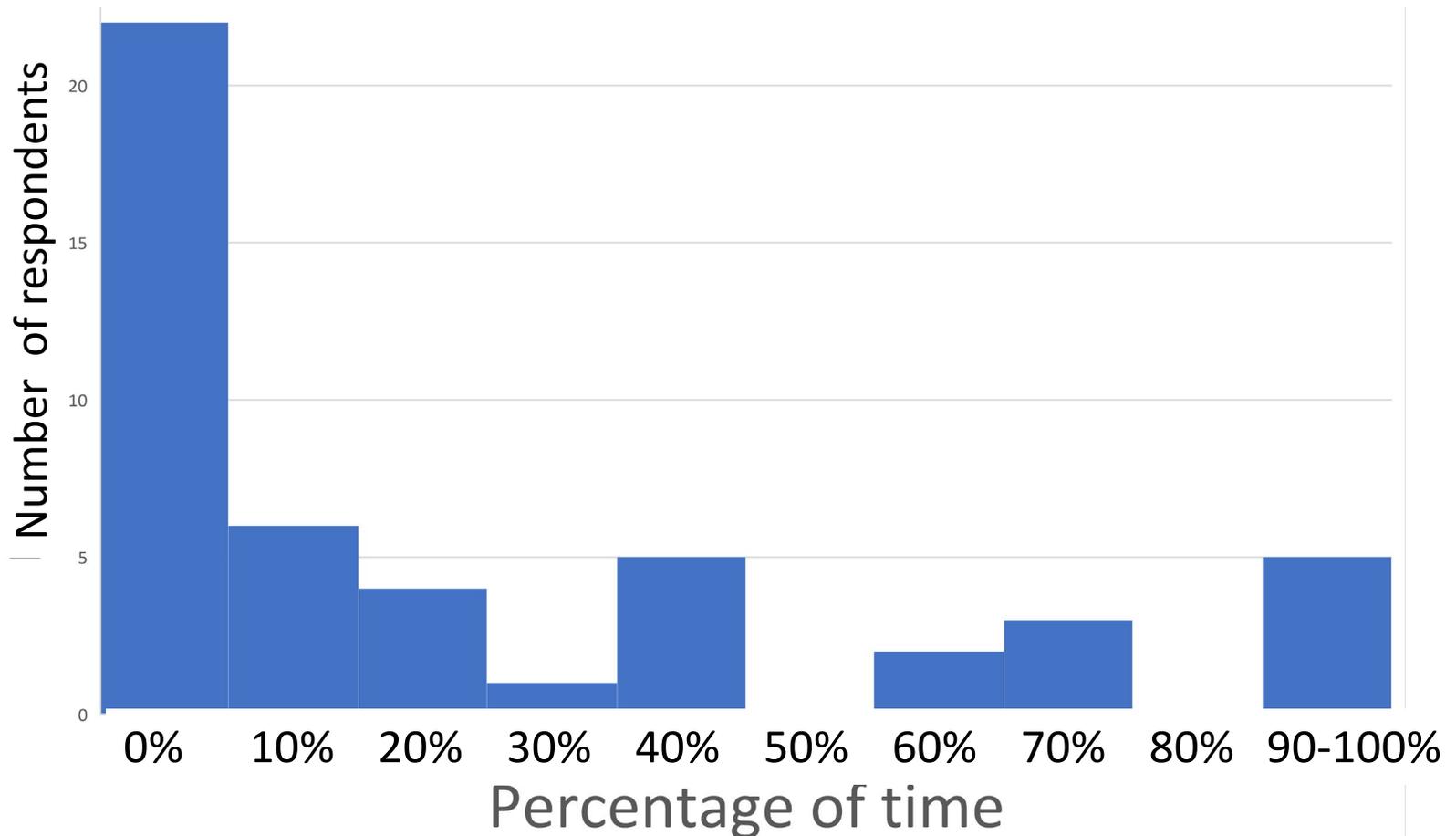


Electronics and CNET Alumni



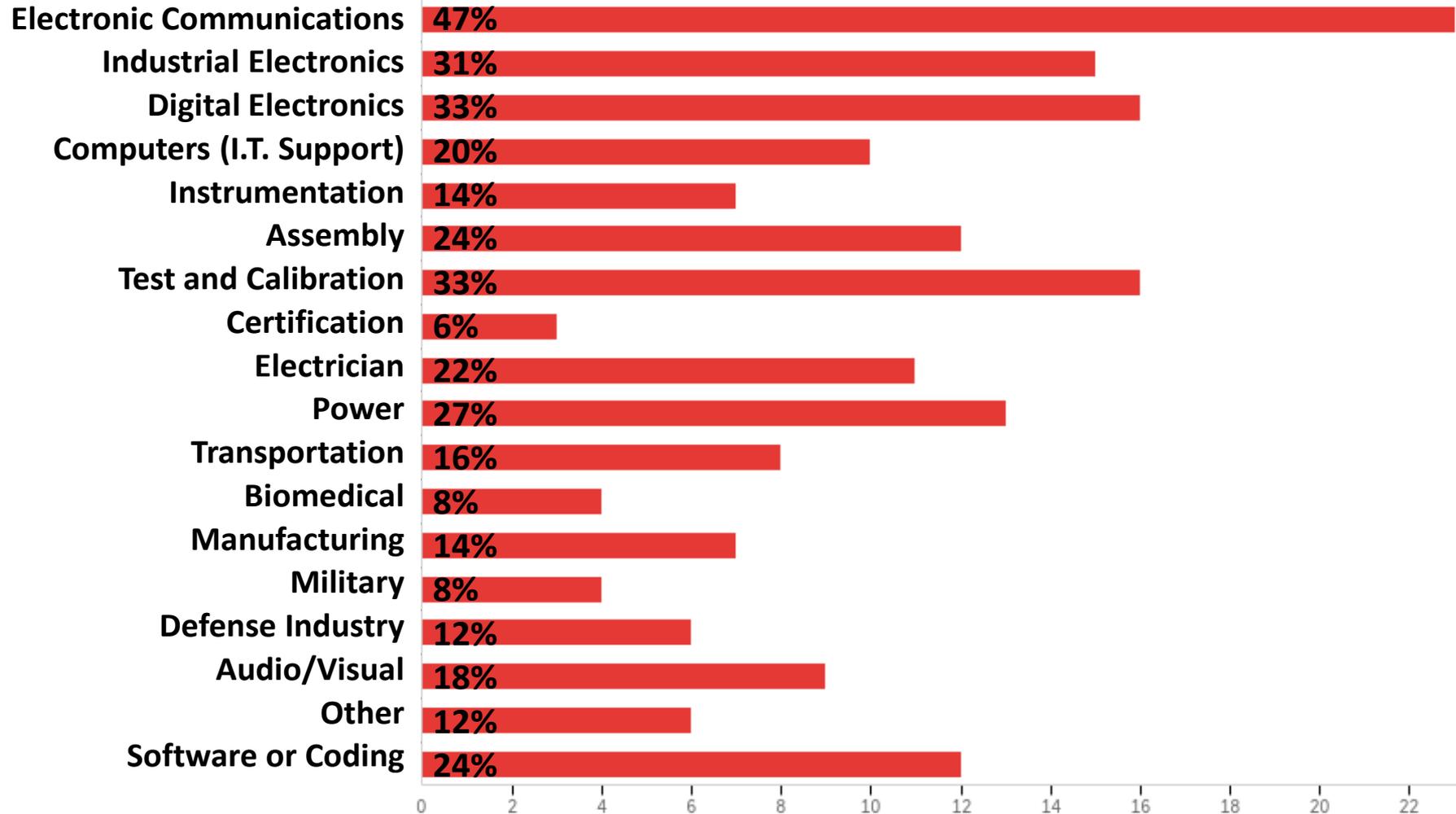
Electronics and CNET Alumni

Roughly, what percent of the time do you work from home, or are allowed to work from home?



Electronics Alumni

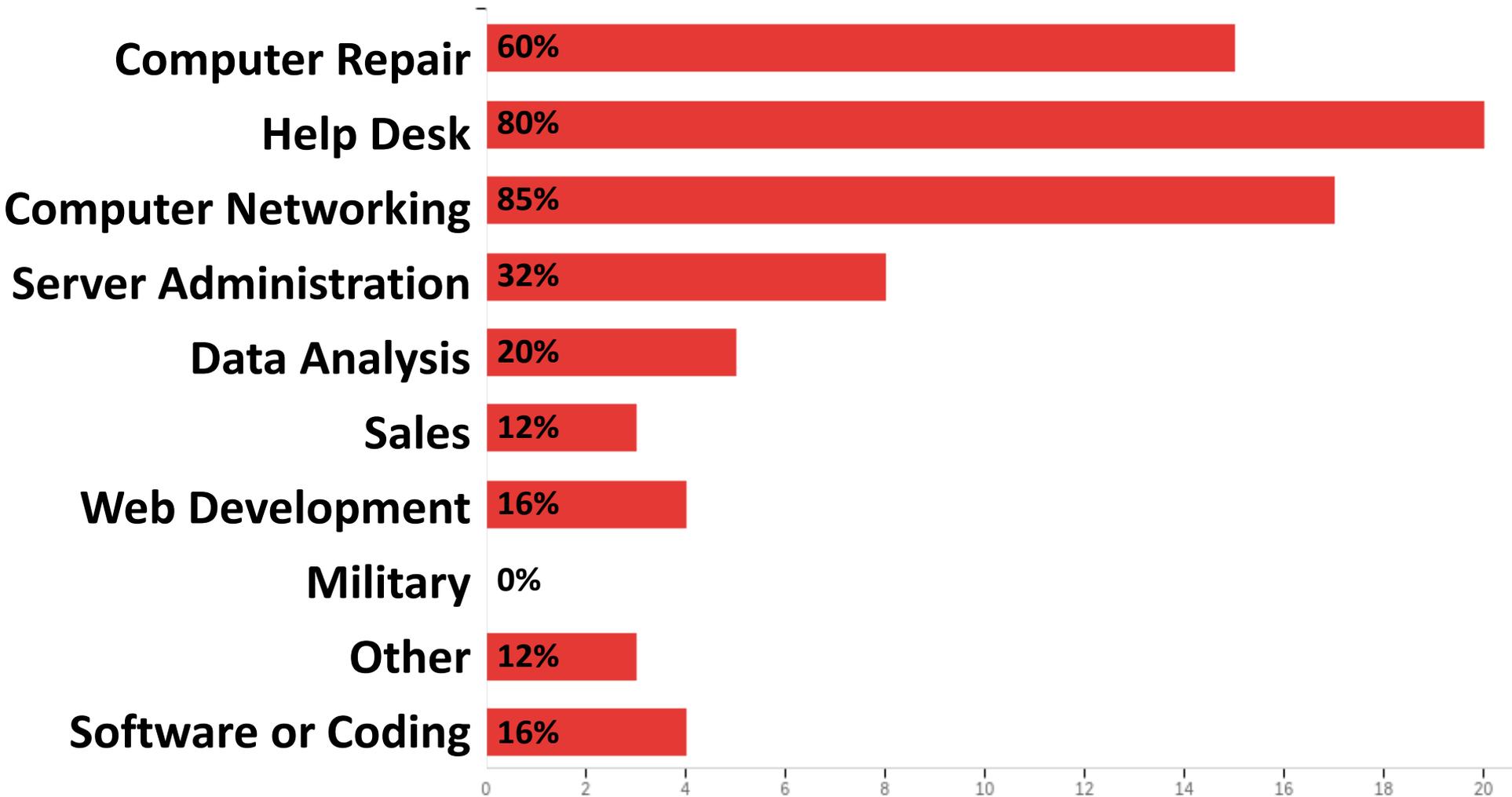
What branch of electronics have you worked in?
(Select ALL that apply)



Out of 49 responses from Electronics Alumni

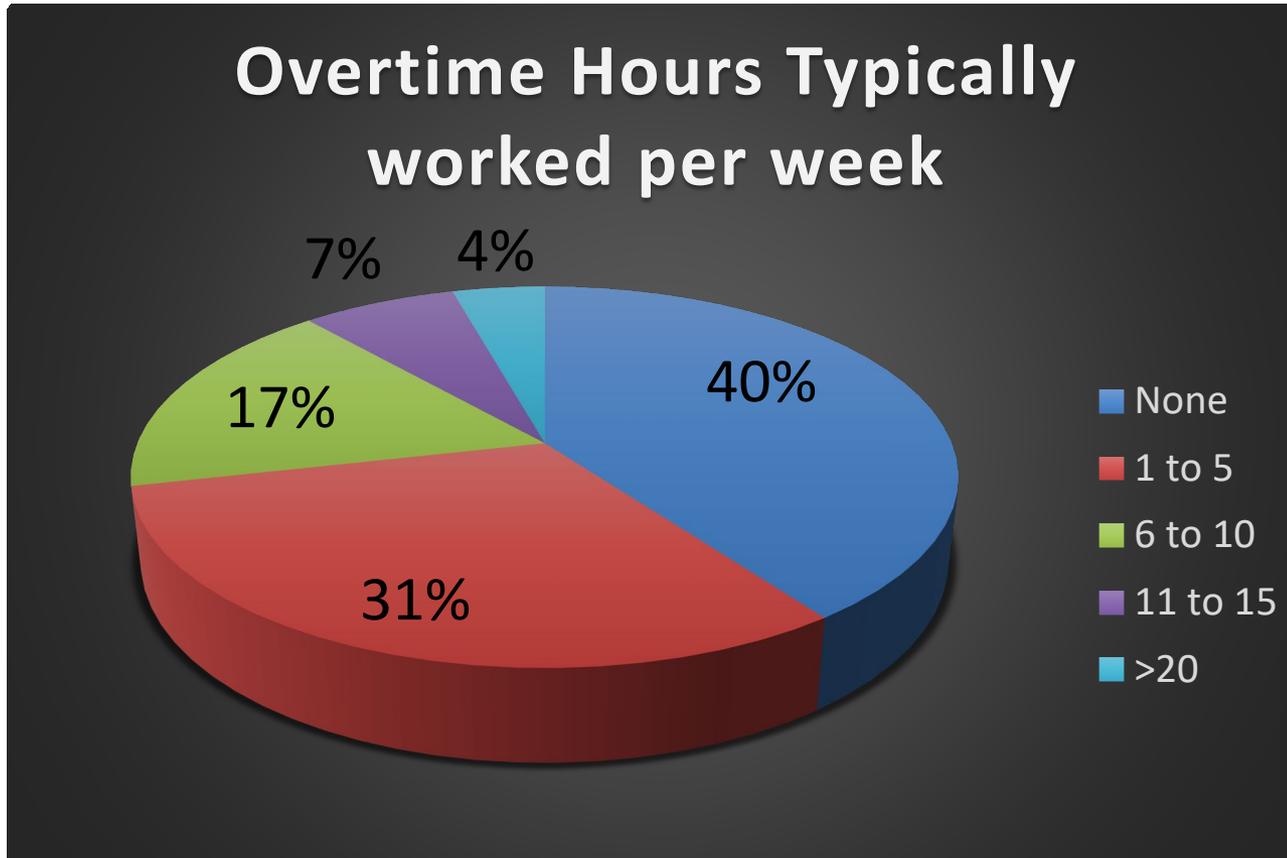
CNET Alumni

What branch of Information Technology have you worked in? (Select ALL that apply)



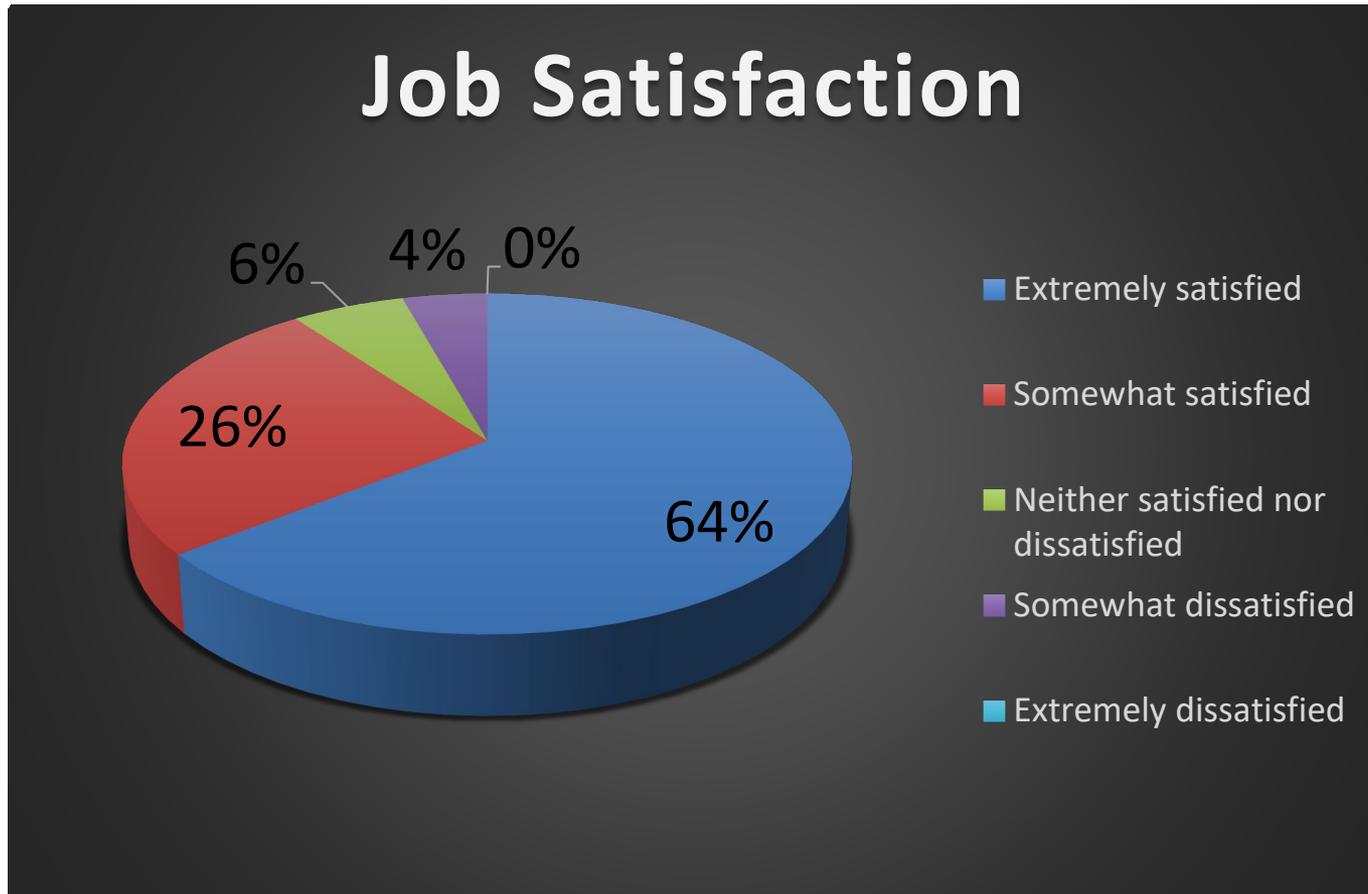
Out of 25 responses from CNET Alumni

Electronics and CNET Alumni



Electronics and CNET Alumni

How satisfied with your job duties are you? (Do NOT consider wage, management relationships, etc. This question specifically seeks to find how happy you are performing your specific job duties every day?)



For those not satisfied with their job, what was the reason(s) you are/were not satisfied with your job?

Didn't utilize my full potential and understanding of digital electronics and analytics

Awful performance metrics and workload

Poor management, lazy co-worker

Long hours, overworking, leadership.

Felt that I was over qualified for the position, and the position didn't allow me to show my true strengths in the field i studied in. It was repetitive testing work on Aviation lighting, such as cockpit lights etc.

Promised to use LabView ended up using DasyLab lack of implementation

It is an entry level position and I would like to have more responsibilities.

Are there any industry certifications/licenses not provided by our school that are required for this job?

(IMSA traffic technician 1) (IMSA work Zone safety) (Class B driver's license) (electrical craft helper)

Elevator Apprenticeship program through the union

Ramsay test

Electrician License

Mechatronics

Avionics, but the electronics courses provided at mtsac is sufficient

Python

Cisco CCNA

Teaching credential.

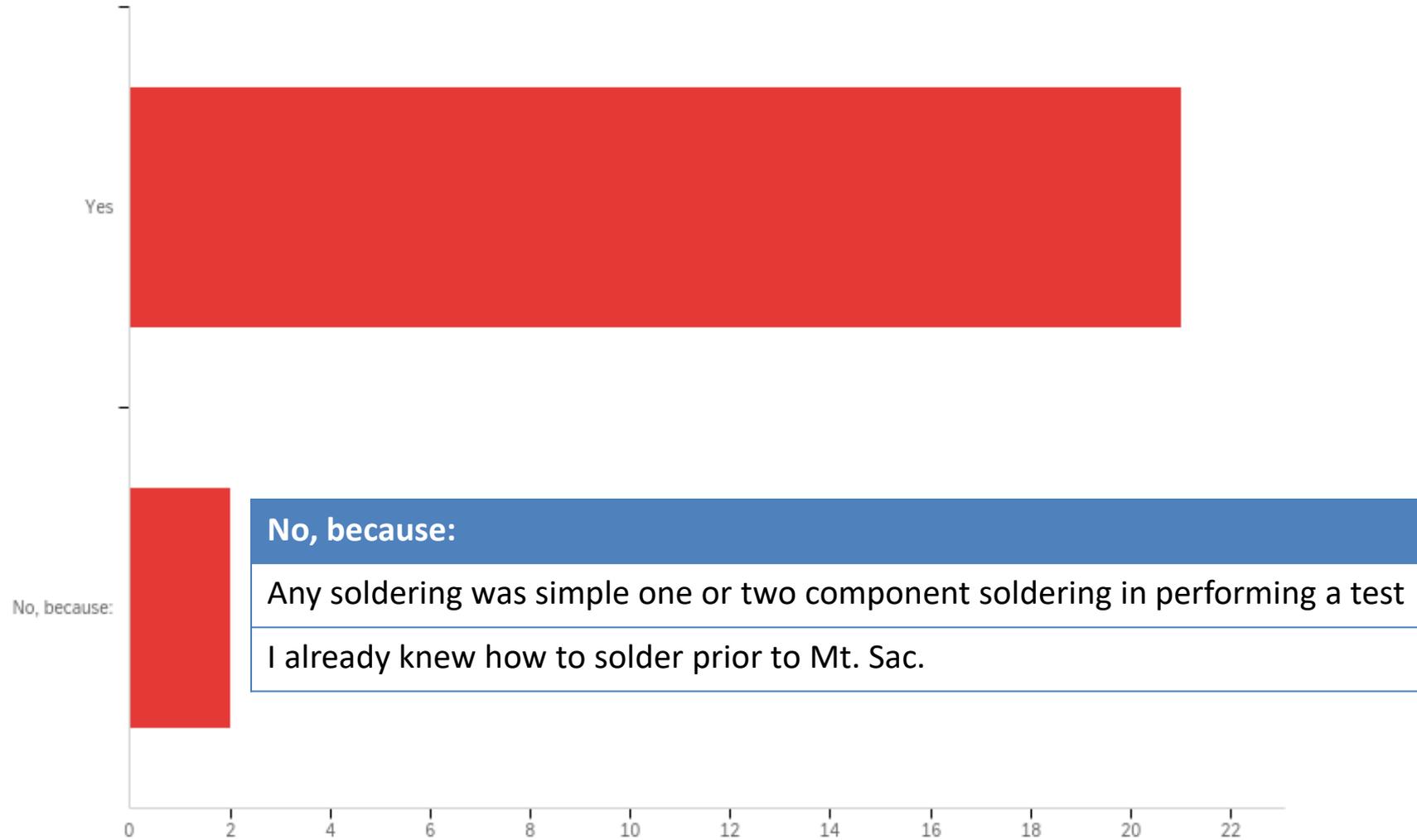
Electronics Alumni

Which of the following are areas you directly work with or experience in your position? (Select ALL that apply)

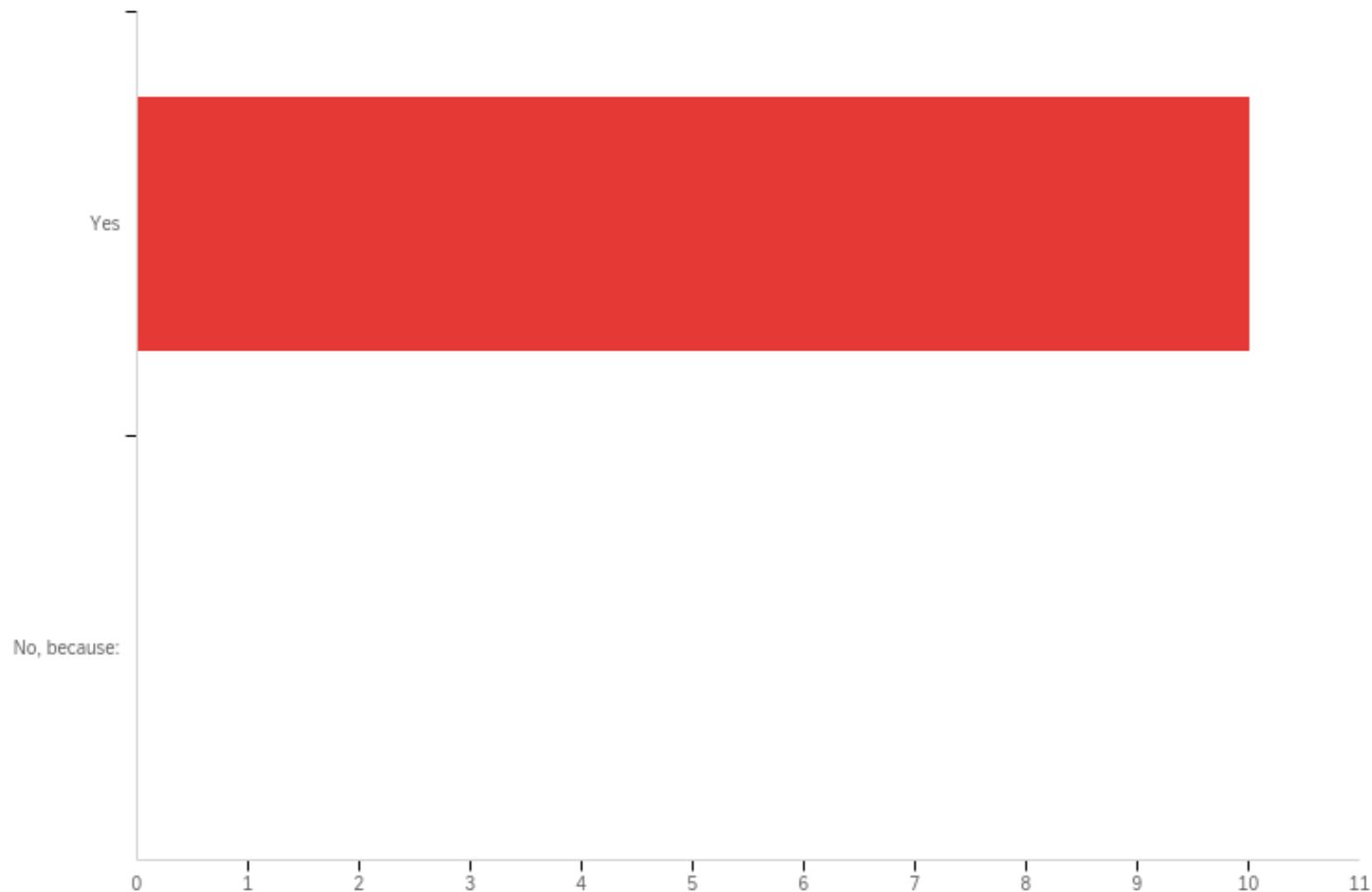
This indicates the percentage of alumni who checked this area.

Testing	87%	Traveling	46%	MOSFETs / IGBTs	22%
Reading schematics	85%	Electro-mechanical	43%	PLCs	22%
Troubleshooting / repair	85%	Transformers	43%	Clamping or gluing	22%
Using hand tools	80%	Discrete components like resistors, capacitors, transistors, diodes, etc	41%	Coding	20%
Documentation	78%	Blueprint reading	39%	PCB's	20%
Test and Measurement Equipment (DMM, Oscilloscopes, Power supplies, Spectrum Analyzer... etc)	76%	Lab work	37%	Grinding	20%
Microsoft Excel	70%	Motors	37%	Fabricating metal mounting brackets and other workpieces	20%
Wiring/Cabling/Splicing	67%	Part measurement and inspection with rulers, calipers, micrometers, and gauges	37%	Capturing or simulating schematics	20%
Digital Circuits	65%	Calculation/Computational based work	35%	Hydraulic Equipment	20%
Power Supplies	63%	Computer Networking	35%	Databases	17%
Analog Circuits	61%	Training	35%	Pneumatic Equipment	17%
Using power tools	61%	Fastening objects to wood surfaces	35%	Deburring and polishing	17%
Fasteners and hardware, including nails, screws, bolts, nuts, and washers	61%	Compliance or Quality Control	33%	Variable Frequency Drives	15%
Fastening objects to metal surfaces	57%	Customer Support	33%	Welding	15%
Installation	54%	Metal fabrication (cutting, punching, drilling, bending, and fastening)	33%	PCB Layout	13%
Field Service	52%	Retrofitting Electronics	28%	SCADA	11%
Preventative Maintenance	52%	Cubicle work	28%	Other	9%
Calibration	52%	Taps and dies	26%	Drywall patching and repair	7%
Relays	52%	Phone support / Remote Support	24%	Sales	4%
Soldering	50%	Microcontrollers	22%		

For those who solder on the job, do you feel the soldering skills you learned in our program were adequate for your position?



For those who use PLC's on the job, do you feel the PLC skills you learned in our program were adequate for your position?



CNET Alumni

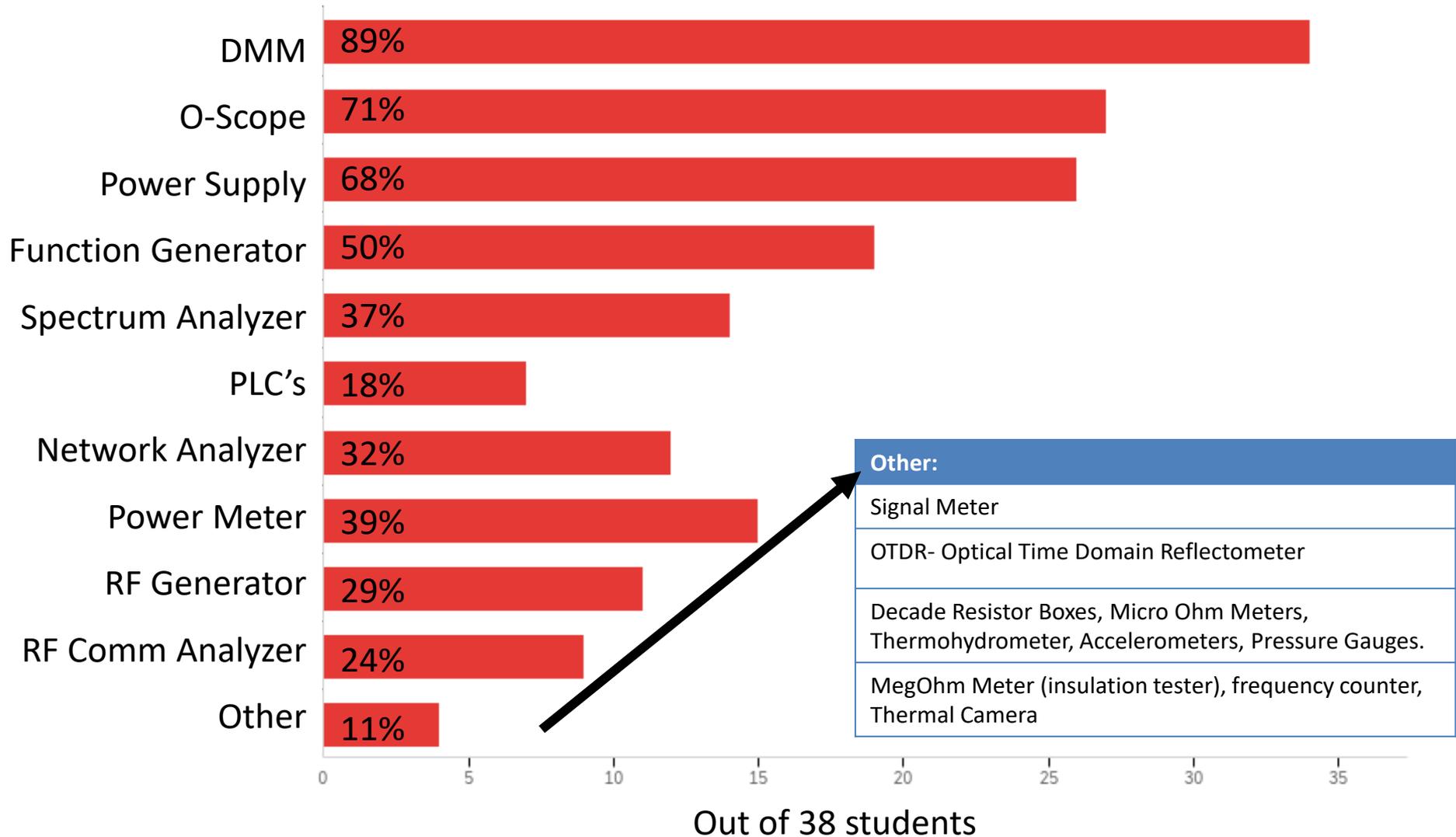
Which of the following are areas you directly work with or experience in your position? (Select ALL that apply)

This indicates the percentage of alumni who checked this area.

Customer Support	95%	Fastening objects to metal surfaces	23%
Microsoft Excel	86%	Fastening objects to wood surfaces	18%
IPv4 Addressing	77%	Test and Measurement Equipment (DMM, Oscilloscopes, Power supplies, Spectrum Analyzer... etc)	14%
Computer Networking	77%	Clamping or gluing	14%
Field Service	73%	Coding	9%
Phone support / Remote Support	68%	SCADA	9%
Installation	68%	Sales	9%
Google spreadsheets	68%	Other	9%
Power Supplies	59%	Grinding	5%
Training	59%	Drywall patching and repair	5%
Wiring/Cabling/Splicing	55%	Welding	0%
Test equipment	55%		
Cable tester	41%		
Fasteners and hardware, including nails, screws, bolts, nuts, and washers	27%		
Databases	23%		

Electronics Alumni

Which test and measurement equipment are used in your position?
(Select ALL that apply)



Electronics and CNET Alumni

What language(s) do you utilize for your coding? Please specify below:
(Out of 60 ELEC and CNET alumni)

Python	6
C	5

*Only 1 CNET student reported using code on the job

Which of the following course contents do you utilize on the job?
(Select ALL that apply)

Electronics Alumni

Elec 50A	85%
Elec 50B	85%
Elec 11	63%
Elec 61	59%
Elec 51	57%
Elec 53	52%
Elec 12	52%
Elec 54a	46%
Tech 60	46%
Elec 56	43%
Elec 55	39%
Elec 54b	30%
Elec 74	22%
Elec 76	22%
None of the above.	2%

CNET Alumni

CNET 52	91%
TECH 60	91%
CNET 50	86%
CNET 54	82%
CNET 56	82%
Elec 11	73%
CNET 62	59%
CNET 60	50%
CNET 58	45%
Elec 50A	32%
CNET 66	32%
CNET 64	27%
Elec 56	23%
Elec 50B	18%

This indicates the percentage of alumni who checked this class.

ELEC Alumni - Do you have any additional comments or suggestions regarding our program? (improvements, maintain relevance, etc.)

Do you have any additional comments or suggestions regarding our program? (improvements, maintain relevance, etc.)

My job before this was as a Field Tech working with Electro-Pneumatic machines that were used for drug testing. The most beneficial knowledge in this job came from the troubleshooting and the customer service classes. Those two skills are difficult to learn in a class but I feel what I was taught in class set me apart from other Field Techs and allowed me to be good at what I did.

Just to thank you for making my life so wonderful!

Just a big thank you to Mt. SAC electronics. This program changed my life for the better. I now have a great paying job that I love doing and am equipped with the knowledge and skills to do because of this program.

Mt. Sac changed my life. I appreciate the schooling I learned from you all.

I had a great overall experience while I was in the electronics program! All of the professors were very helpful and professional.

ELEC Alumni - Do you have any additional comments or suggestions regarding our program? (improvements, maintain relevance, etc.)

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I remain very grateful for all the knowledge, lessons & lectures I have received during my time in this program. Retaining the knowledge of AC/DC theory & digital/analog circuitry has allowed me to pass multiple employment exams for entry & top level positions. I would also like to say that I feel versatile as an electrician due to what I have learned in this program.

If I wasn't so adamant about working for LA Metro I would feel extremely confident in my ability to acquire a position in the electronics field with any other company at the moment. Every course I took was thorough and to the point. I had a great experience at Mt. SAC, and even through the pandemic transition I was always impressed with how much it showed that the electronics department really cared about the students and delivering the best education possible. Thank you.

Programming is becoming more necessary, at least enough knowledge to change configuration or establish a connection to a device connected by wifi or ethernet.

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Being in the education field, I am always trying to find ways to show our current students the light at the end of the tunnel to stay motivated. Whether that is talking about industry trends, current job positions where they can use their skills and degree, or outside people to validate what you are currently teaching. My time at MtSAC was truly a corner stone in my education.

Relevance is always nice to keep up with the times as technology evolves. Thank you!

The Professor are amazing.

Coding is the way of the future and I highly recommend making a python/C++ coding class required for the A.S. program.

I just want to say thank you to everyone in this program ; seriously! You guys are awesome, and w
Were able to help me in getting a job and providing for my family. I can't say thank you enough.
Good job!

Thank You

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I always tell others esp at my work that Mt. Sac has the best electronics department. The staff there actually cares about people and gives everyone their best effort. As long as the people you instruct matter in your department then you will succeed. When I came to MT SAC I already have 5 years electronics experience so its hard to say what part of the program helped me the most or what could be improved on because some of it I already knew. But I can say this for sure, I have that 5 year experience but there were a lot of gaps or missing knowledge and when I went to MT SAC for the certificate it filled in those gaps and missing knowledge.

I think it's a great program. I am able to talk to engineers about programs I'm working on, and understand what they are talking about because of the knowledge I've received from this program.

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Again the electronic program offered at MtSac is a great one!

I feel that the world is going to soon expect of us to be able to code proficiently. Automating a lot of dull tasks or doing simple data logging and analysis is going to go a long way. I'd love to see some python or LabVIEW taught to improve the program.

The program here was one of my favorite experiences in college. I found my passion for electronics and had spectacular mentors in the department. Thank you guys.

I liked the program, but the way I went at it, just didn't work for me. I spent too much wasted time in general ed when I finished my core work, thus leading to lose an interest and passion for the field.

ELEC Alumni - Do you have any additional comments or suggestions regarding our program? (improvements, maintain relevance, etc.)

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Best AS program just need add and tweak some program depends if you're going for electrical engineer route vs technician route

It's been several years since I've been through the program so it is hard to say if there are improvements to be made. However, the basics I learned from the program helped me be successful when transferring to Cal Poly Pomona and obtaining my bachelor's in electronic systems. Several times I felt ahead of the crowd thanks to the extensive hands on labs and courses at Mt SAC.

CNET Alumni - Do you have any additional comments or suggestions regarding our program? (improvements, maintain relevance, etc.)

Do you have any additional comments or suggestions regarding our program? (improvements, maintain relevance, etc.)

My time with the CNET program really helped me get to where I am today. Most skills are learned on the job and based off of experience but the program really set the foundation of my skills that is needed in this IT Environment.

I am thankful to the entire Mt.Sac CNET team. Thank you all.

I love that you are reaching out to past alumni! So great to hear from you, Professor Miller! You are my favorite professor of all time!