

# Ali Mahrous

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## PROFESSIONAL SUMMARY

I am an electronic technician with 5 years of training and experience. I have a Bachelors from the University of California, San Diego, where I was trained to model complex interconnected information systems including the brain, which enriched my theoretical understanding of complex electrochemical information systems.

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## SKILLS

- Trained and certified as an electronic technician to repair and maintain Boeing's AN/TWQ-1 Avenger Luncher System
- Trained and certified to repair air-ground radio communication Systems such as the UHF AN/GRC 171
- Troubleshoot on the modular and circuit level using traditional and non-traditional testing and verification methods
- Skilled at reading blueprints and schematic diagrams with meticulous documenting and record keeping skills
- Operational knowledge of AD/DC circuits, semiconductor devices, power supplies, amplifiers, and logical controllers
- Basic working proficiency of AutoCAD to produce technical designs and to modify exiting blueprints
- Basic coding ability in high-level programming languages--C, C++, Python, Matlab, Neo4j, and Ruby
- Proficient at managing orders, handling tracking systems and coordinating orders with scheduled maintenance
- Effective technical writer and communicator

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## EXPERIENCE

### A&H ARMATURE WORKS

*Electronic Technician/Mud Pump Engineer*

2008 – 2014

- Conducted entire refurbishment of the electronic components of General Electric's mud pumps
- Installed, rewired, and tested high voltage generators for mud pumps
- Rewired and upgraded the entire electrical system of 1980 mud pumps
- Installed and upgraded control switches
- Maintained and troubleshoot the electrical system of mud pump once installed on site
- Provided telephone technical support for offshore drillers
- Filled the position as a summer job after 2009 while a full time student in CA

### UNITED STATES MARINE CORPS

*Electronic Technician/Avenger System Technician/Avionic Technician*

2002 – 2007

- Served as an Electronic Technician for military air-ground communication systems
- Installed, tested, maintained and repaired aviation, air and ground, radio equipment
- Conducted shop level repairs on a modular and circuit level
- Performed system maintenance duties for the Avenger Weapons System including inspections, testing and field level repairs
- Performed and supervised installations, alignments, inspections, testing, calibrations and maintenance of various electronic equipment including testing equipment
- Conducted maintenance training programs; prepared and submitted operational reports, forms and logs
- Conducted routine calibrations on the Laser Range Finder System and other infrared optical systems

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

*Bachelor of Arts in Cognitive Science w/ Neural Network Modeling emphasis (Neuroscience)*

Sep 2011 – Dec 2013

### UNIVERSITY OF CALIFORNIA, BERKELEY

*Interdisciplinary Field Studies*

Jul 2009 – May 2011

### ORDNANCE MUNITION & ELECTRONIC MAINTENCE, REDSTONE ARSENAL, AL

*Digital Fundamentals, Electromechanical Systems, Troubleshooting And Repair Electronic Devices*

May 2003 – Sep 2003

### COMMUNICATION ELECTRONIC SCHOOL, TWENTYNINE PALMS, CA

*AC/DC Circuit Analysis, Electronic Devices (HF, UHF, and VHF radio), And Circuits Soldering*

Dec 2002 – Apr 2003