

# Henry E Brooks

10962 Poblado Road #2024 · San Diego, California 92127

(951) 285-9605 · [brook057@cougars.csusm.edu](mailto:brook057@cougars.csusm.edu)

<https://www.linkedin.com/in/henry-brooks/>

<https://github.com/hebr3/>

## Professional Summary

---

**Programming Languages:** Python, C++, Haskell

**Development Systems:** Github, Windows, Linux

**Other:** U.S. Coast Guard Veteran

## Work Experience

---

### SPAWAR, San Diego, CA

June 2017 Present

Software Engineer - Intern

- Utilized wireshark and python to capture and analyze network traffic.
- Used the pandas and sci-kit learn libraries to identify malicious network traffic.
- Wrote python scripts to automate the collection and parsing of json data.
- Utilized the Weka machine learning package to analyze and cluster data collected through side channel analysis.
- Utilized python to analyze data and identify features for machine learning project.

### Poway Unified School District, San Diego, CA

August 2016 June 2017

Substitute Math Teacher

### Valley Center High School, Valley Center, CA

August 2015 June 2016

High School Math Teacher

- Gave daily presentations of mathematical concepts and methods to diverse student groups.
- Created and graded assessments and lessons covering mathematical topics.

### CSU San Marcos, San Marcos, CA

June 2015 July 2015

Math Lecturer for Summer Bridge MAPS program.

- Presented mathematical topics to incoming college freshmen.
- Assess student knowledge and identified mathematical weaknesses.
- Created individualized lessons to address student weaknesses.

### US Coast Guard, Mobile, AL

July 2008 Dec 2010

Aviation Electrical Technician

- Completion of 26 week military training school on electronic systems maintenance, repair, and safe work practices for electrical systems.
- Completion of 8 week military training school on electrical component troubleshooting and repair.
- Completion of 8 week military training school on electrical wiring troubleshooting and repair.
- Performed daily maintenance and repair of helicopter electrical systems and components.
- Instructed and trained junior enlisted service members in Helicopter maintenance and flight crew responsibilities for the HH65C.

## **EDUCATION**

**California State University San Marcos, San Marcos, CA**  
2015 Single Subject Credential Program

May

**California State University San Marcos, San Marcos, CA**  
2014 Bachelor of Science Mathematics

May

## **SELECTED ACHIEVEMENTS**

---

- Honorable discharge from the US Coast Guard in February 2011.
- Commendation for unit achievement related to aircraft maintenance during Deepwater Horizon oil spill clean up and monitoring operations.
- Developed and implemented daily lesson plans, administered tests and evaluations, and analyzed student performance in accordance to the Common Core State Standards.

## **REFERENCES**

---

- Dr. David Barsky  
California State University San Marcos  
Math Professor  
djbarsky@csusm.edu  
7607508070
- Bonnie Mendenhall  
California State University San Marcos  
University Professor  
bmendenh@csusm.edu  
7608035594
- Patricia Buza  
California State University San Marcos  
University Supervisor  
pbuza@aol.com  
7607504300