TAYLOR HE

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EDUCATION

Stevens Institute of Technology — May 2019
B.S. in Computer Science — Major GPA: 3.85
Minor in Mathematics

LINKS

LinkedIn.com/in/taylorhe
GitHub.com/taylorhe
Personal://taylorjhe.com

LANGUAGES

Proficient: C/C++ • Java • Python • Racket
Familiar: HTML/CSS/JS • MatLab • AVR Assembly

EXPERIENCE

LOCKHEED MARTIN — *Software Developer Intern* — Summer 2016

- Debugged operational readiness systems for battleship equipment.
- Wrote over 30 comprehensive JMockit unit tests for various code changes, one of which exploited a data race in a mission critical feature.
- Implemented a multi-tabbing feature and various QoL changes to an internal GUI builder tool for system engineers.

ROBOTICS TEAM — *Mentor and Former Software Lead* — Oct 2012 - Present

- Provided guidance to current team members for general software design and help.
- Implemented string potentiometer control software for a grabber arm and architected a modular code system for the drive train.

PROJECTS

MUSIC BY YOU — *Python • HTML/CSS/JS* — Mar 2017

- An emotion-driven music selection program using Microsoft's Emotion API.
- Automated navigation and search to Pandora in Chrome using Selenium.
- Designed a webpage that updates the info on your current mood and song genre.
- Created at DuckHacks 2017 and won Most Marketable prize.

ROCKSAT-C: VIBRATION ISOLATION — *C • C++ • MatLab* — Oct 2016 - Aug 2017

- An enclosed system to record and isolate unwanted vibrations occurring in a NASA launch payload with a team of engineers.
- Designing real-time vibration cancellation using microphones to detect frequencies and an onboard microprocessor to neutralize frequency changes.
- Parsing the collected data after launch using MatLab to observe efficacy.

TWITTER SENTIMENT STOCK ANALYSIS — *C++ • Java • Python* — Jan 2017 - May 2017

- A text mining webpage that predicts aggregate stock market behavior based on political tweets and their sentiments.
- Collecting stock market data using Yahoo's API and scraping tweets using Selenium.
- Examining different machine learning methods for the best prediction accuracy.