TAYLOR HE

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EDUCATION

Stevens Institute of Technology   May 2019
    B.S. in Computer Science   GPA: 3.66
    Minor in Mathematics

LINKS

linkedin.com/in/taylorhe
GitHub.com/ taylorhe
Personal:// taylorhe.github.io

EXPERIENCE

LOCKHEED MARTIN   *Software Developer Intern*   Summer 2016

- Debugged operational readiness systems for battleship equipment.
- Coordinated large-scale integration and regression testing of new features.
- 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.
- Coordinated with mechanical and electrical teams to ensure proper implementation of robot software and goals.

CURRENT PROJECTS

ROCKSAT-C: VIBRATION ISOLATION   *C • C++ • MatLab*   Oct 2016 - Present

- Creating an enclosed system to record and isolate unwanted vibrations occurring in a NASA launch payload with 4 other engineers.
- Designing real-time vibration cancellation using microphones to detect frequency 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 - Present

- Designing a text mining webpage that predicts aggregate stock market behavior based on political tweets.
- Collecting relevant tweets and stock market data using Twitter's and Yahoo's API.
- Experimenting with Python's Natural Language ToolKit and scikit-learn to generate sentiments from collected Tweets.
- Examining different machine learning methods for the best prediction accuracy.

LANGUAGES

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