Chris Hughes

Software Developer

Experience

Raytheon Technologies   **May 2016 - Sept 2021**

Agile Software Development Team
- Developed code for new features in the radar planning, tracking, and scheduling algorithms.
- Improved radar planning algorithm efficiency by 30 percent by isolating and removing unneeded processing.
- Improved server efficiency by 25 percent by substituting optimized containers and locking mechanisms for STL library equivalents.

Remote Site Integration Team
- Worked with a small team at a remote site to integrate and test a fielded system to meet 94 percent of the system requirements.
- Cooperated remotely with teams at home to document and fix over 100 bugs in 10 months.

Internal Research and Development Team
- Integrated modern C++ technologies into legacy codebase including boost libraries, RTI DDS messaging, and shared Raytheon libraries.
- Ported over 6000 code files from IBM AIX to Red Hat Linux with a small team of developers.

iRobot   **Jul 2015 - Dec 2015**

Robotics Engineering Intern
- Developed test equipment for a small R&D team using Raspberry Pi and Arduino.
- Researched tactical sensors for robotic hands using resistive and capacitive sensor technologies.

MC10 Inc   **Jul 2014 - Dec 2014**

Electrical Engineering Co-op
- Defined test procedure for wearable, bendable sensor technology used to monitor Parkinson's patients.
- Developed a fast compression algorithm to save hours of sensor data onto a small on-board memory chip.
- Participated as the first subject in a twenty-four hour sleep study and helped to analyze resultant data.

Personal Info

Phone: (978) 482-7948

Email: chris@sprintingwithsuitcases.com

LinkedIn: linkedin.com/in/hughes-ch

Website: christhesoftwareguy.com

Github: github.com/hughes-ch

Skills

C++	7 years
Linux	5 years
Emacs	5 years
Jenkins CI	5 years
MATLAB	5 years
Python	2 years
Perl	2 years

Education

Northeastern University
Bachelor of Science
Computer Engineering
2016

Personal Work

PassWord Generator (PWG)
github.com/hughes-ch/pwg
- Personal password generator and secure database.
- Developed with Python (pycrypto and TK).