

Graham Wobig



PROGRAMMING LANGUAGES

C, JavaScript, TypeScript, Java, C++, Python, MATLAB, HTML, Scala, Fortran, Mathematica, Kotlin

OPERATING SYSTEMS

Linux, Windows, Mac

OTHER SKILLS

Git, Azure DevOps, Apache Zookeeper, Slack, Agile Development Methodology, Ladder Logic

EDUCATION:

Virginia Tech
BS - Computer Science

LINKEDIN

<https://www.linkedin.com/in/graham-wobig/>

Professional Summary:

Mr. Wobig was recruited by Castle Hill upon graduation with a Bachelor of Science in Computer Science from Virginia Polytechnic Institute and State University on the strength and applicability of his Research and Projects undertaken while pursuing full-time academic work. He currently leads development on a venture to simplify the integration of non-S88 compliant machinery into the process orchestration layer. He handles multiple concurrent responsibilities in this role and works with multiple platforms to tackle this unique problem.

Project Experience

Castle Hill Technologies – AgileGxP Project

- Created a proof of concept in Node-RED that leverages OPC and a RESTful API
- Migrate proof of concept to a web application using Node.JS and TypeScript
- Wrote living documentation for the project including testing documents, design documents, and UML diagrams
- Implemented DevOps framework in Azure DevOps

Upwork.com – Freelance Software Developer

- Developed a Python script for Raspberry Pi to automate temperature, humidity and lighting regulation
- Worked with client to create a command line interface to dynamically update garden parameters
- Implemented data logging and plotting for temperature and humidity data using pyplot

Software Innovations Lab – Research Fellow

- Developed a proof of concept middleware generator for resource-constrained distributed computing applications
- Extended upon the previous project to generate serialization for calls to secure methods in ARM's TrustZone
 - Both projects were written in C++ and use LLVM's intermediate representation to facilitate code generation

Vaco – Google Cloud Platform Student Innovator

- Networked with Virginia Tech students and faculty to promote Google Cloud Platform
- Hosted educational sessions, demonstrations, and class presentations about the platform

Senior Capstone Project

- Group created a Risk Analysis system comprised of sentiment analysis, risk reporting, and UI components



Virginia Tech Hybrid Electric Vehicle Team

- Developed the risk reporting component in Java and integrated into the system using Apache Kafka
 - Worked with CS@VT affiliate company who acted as stakeholders
 - Acted as group leader gave weekly reports about project status
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- Member of Connected and Automated Vehicle subteam tasked with implementing adaptive cruise control
 - Implemented MATLAB's Gaussian Mixture Model in simulated driving scenarios to evaluate its performance
 - Wrote C++ unit tests for CAN frame parsers of data acquisition system