CHRISTIAN T. VANCE

180 Bayside Road, Greenland, NH 03840 | (603) 828-2899 | vance.christian@gmail.com

Education

University of New Hampshire – Durham, NH   **May 2018**
Bachelor of Science: Electrical Engineering
Campus Involvement: UNH IEEE Club Secretary and Treasurer, UNH Linux Club

Relative Work Experience

HighRes Biosolutions – Beverly, MA   January 2019 – April 2020
Software Automation Engineer
- SQA testing experience with liquid handling software suite
- System integration software engineering for life science robotics.
- Successfully developed, tested, and deployed third-party device drivers.
- Gained expertise in liquid handling automation and integration.
- Created a C# application for automating liquid handler calibration.
- Contributed to internal software tool kit development for automating system database configuration.
- Developed python microservice for querying SQLite databases for video files in response to a subscribed event within a scheduler.

Allegro Microsystems – Manchester, NH   June 2018 – August 2018
Development Product Engineering Summer Intern
- Successfully tested the next generation of advanced automotive sensing technology with Eagle Test Systems and C++.
- Documented detailed test procedures and methodologies.

Projects in Engineering

Autonomous Mapping Robot (AMR)
Autonomous Mapping Robot is a self-navigating robot designed from the ground up to explore and map foreign terrain. Personal contributions to the project include electrical system design, software driver development using Atmel Studio 7 and AVR 8-Bit Architecture, and mechanical design/prototyping using SolidWorks and 3D printing.

Personal Portfolio Website
This is a website built to display accomplishments and projects that are completed and in progress. This website and all of its source code is available on GitHub along with other related software projects. This personal portfolio can be found here: https://poundkake.github.io/index.html

Relevant Skills

- 6+ years of development-based Linux experience
- **Programming Skills:** C#, Java, C, ROS, Arduino, Matlab, Python, Git, HTML, CSS, JavaScript, SQL, WPF, and .NET Framework

- Proficiencies: Microsoft Visual Studio, Autodesk Fusion 360, Simulink, NI Multisim, LTSpice, Microsoft Office tools, Adobe Creative Suite, Atmel ICE, Atmel Studio 7, AVR 8-bit Microcontrollers
- **Industrial Robot Experience**: Precise PF3400 Scara, iClebo Kobuki, HRB Prime Liquid Handler