

Benjamin Wilkins

University of Waterloo - Computer Science 2022

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Work Experience

Junior Software Developer

Embotics

February 2017 - June 2017

- Developed user portal for hybrid cloud virtualization software allowing administrators to simplify and restrict end user access
- Implemented VM controls using Java to grant users further customization of their virtual environment
- Designed and developed user interfaces using XHTML, CSS, JavaScript and Primefaces to improve end user experience
- Worked as part of a small development team using Agile methodologies to meet strict deadlines and deliver a new product release to customers

Projects

UW Sailbot

Automated Sailboat Design Team - Navigation

September 2017 - Present

- Designed and developed filters for anemometer data using an Arduino to reduce external noise for smoother navigation
- Implemented Arduino program that parses GPS data and publishes to a ROS topic for use in autonomous navigation algorithm

Plane Pointer

October 2017 - February 2018

- Built Arduino device to locate and point at nearest plane and display flight information on an LCD
- Developed Python script that calls multiple APIs to poll information about planes and airports
- Parsed Wi-Fi connection information using regular expressions for use with Google's geolocation API

Interests

Scouting

2010 - Present

- Embarked on multiple international trips including volunteer construction work in Peru
- Elected Venturer Company President and was responsible for chairing meetings, ensuring distribution of weekly emails and representing the company in council and committee meetings
- Currently volunteering as an Otter Leader involving coordinating meeting preparation with other leaders and running activities for 5-7 year olds

Skills

Languages: C/C++, Java, Python, JavaScript, Scheme, openSCAD

Tools: Git, SVN, ROS, Arduino