

Andrew Valancius

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Education:

SUNY Potsdam, Potsdam NY
Bachelors of Computer Science (B.S.)

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Technical Skills (ordered by proficiency):

- I have 3+ years of experience with **Java, JUnit, Gradle, Python, Git, C++, Django, gdb, and SQL**.
- I also have 1+ years of experience using **JavaScript, PHP, ARM Assembly, GoLang, and the ROS Client Libraries**.
- I have extensive experience configuring development environments on Linux (Debian), Windows, and macOS.
- Other technology I'm proficient with: **SublimeText, Webots, Unity Engine, LaTeX, Eclipse, ePuck Robotics Platform, ROS, Arduino + Raspberry Pi + Serial Communication, Google Voice and Gmail APIs, and MATLAB**.

Work Experience:

Jr. Developer, Spice CSM, Potsdam NY

July 2014 – February 2015

- Used **PHP** to script database integrations between clients current datastores and our service via **SQL** and **JSON**.
- Became very familiar with dynamic web-based application development in **Javascript** (EXT JS)
- Needed to take specifications from clients and implement them as features in software.

Robotics Camp Instructor, Carnegie Science Center, Pittsburgh PA

Summer 2017

- Taught 7th and 8th grade students how to program FTC-like bots during multiple week long sessions.
- Improved troubleshooting skills with **RobotC** and **LEGO NXT** related technologies.

Notable Projects:

Getting Started Guide for the ePuck Robotics Platform

- Developed a set of tutorials, documentation, and accompanying materials facilitating the use of the ePuck robotics platform by SUNY Potsdam's computer science department.
- Used **Webots** with the **Java** runtimes to program robot controllers for obstacle avoidance and line following.

FRC Scouting App

- Built a webapp for the collection and display of scouting data gathered by our FIRST Robotics team at regional competitions.
- The app was built with **Django** and the data was displayed with highcharts.

Volunteering and Co-Curricular:

ACM Lightning talks, Clarkson University, SUNY Potsdam

- Gave presentations to fellow students containing tips for using **Git**, **Virtualenv**, and **Gradle**.
- Developed and presented a talk about how to setup a Windows environment to work with **Git** and **SSH** as well as registering their **SSH** keys with their **Github** account for ease of use.
- Planned out presentations and improved public speaking skills.

FIRST FRC Mentorship, Massena and Salmon River FIRST Robotics team 229

- Organized introductory and more advanced **Java** classes for our team members.
- Made rough **lesson plans** for the high school students utilizing online learning resources.
- Created controller programs for the NAO robotics platform.
- Developed leadership focused interpersonal skills.