

# Andrew Valancius

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## Education:

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

**Expected April 2019**

## Technical Skills (ordered by proficiency):

- I have a working knowledge of Java, Python, Git, C++, GDB, and Gradle.
- I also have experience using JavaScript, PHP, Django, JUnit, ARM Assembly, GoLang, SQL, and the ROS Client Libraries.
- Other Software Experience: Webots, Eclipse, ePuck robotics platform, ROS, Arduino IDE, Google Voice and Gmail APIs, MATLAB, Adobe Photoshop, and Sony Vegas Pro.

## Work Experience:

**Jr. Developer, Spice CSM, Potsdam NY**

**July 2014 – February 2015**

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

**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 my school's computer science department.
- Used Webots simulation software to simulate robot behaviors as well as remote control real robots.

### **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 for Java.
- 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.