

# Aaron Gunderson

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## SUMMARY

I am a great team player who loves working hard on interesting projects. Not afraid to jump in, I look to assist wherever I am needed.

## EDUCATION

*Bachelor of Science*, Electrical and Computer System Engineering, Spring 2017 GPA: 3.26

Rensselaer Polytechnic Institute, Troy, NY

## EXPERIENCE

*Software Developer and Mentor* Rensselaer Center for Open Source **January 2014-Present**

- Led development of Whiteboard and volunteered as a mentor providing others with programming guidance, attending recruiting events, and other services including maintaining Observatory, our project tracking system

*Undergraduate Programming Mentor* Computer Science Department **Fall 2014-Present**

- Worked under a graduate TA teaching and overseeing labs for Computer Science 1.

*Teaching Resident Assistant* Dean of Students Office, Rensselaer Polytechnic Institute **Summer 2014**

- Exposed Middle and High School students to STEM fields and related careers.
- Taught and showed students topics covering everything from Robots to Chemistry to Leadership.

*Office Assistant* Bursars Office, Rensselaer Polytechnic Institute **Fall 2013-Spring 2014**

- Assisted with administrative tasks and used database system to manage students financial accounts

*Farm Hand* Blooming Glen Farm, Perkasio, PA **June 2011-August 2013**

- Worked on various tasks including planting, weeding, harvesting, fixing equipment and selling produce.

## ACTIVITIES

*Rensselaer Center for Open Source*, Whiteboard Lead Developer

- Django(Python) based web application for crowd sourced assignment and grade tracking.
- Led project from initial stages to current stages deploying to Amazon Web Services(AWS)
- Managing a 6 member team working on everything from the server to responsive website to the mobile clients using PhoneGap

*Rensselaer Electric Vehicle*, Assistant Electronics Team Lead

- Worked with our team designing Control System for our Urban Concept Car.
- Researched and planned for our next Prototype Car.
- Organized six person team and reported regularly to our Project Manager and President.

*Arduino Drone*, Contributor to an Arduino powered autonomous drone

- Interfaced sensors for Arduino including accelerometer, GPS sensors, altitude and pressure sensors
- Designed Autopilot capabilities and user interface

*Embedded Hardware Club*, Team Member Alfred the Butler Bot

- Built and programmed a self driving robot.
- Helped write Android application for drink dispensing and used OpenCV to detect faces.

*Business Model Competition*, Team Member

- Competed in the Rensselaer Business Model Competition and worked with the Severino Center for Technological Entrepreneurship on an application easier method to borrow items from friends.

*Pennridge High School Robotics Club*, President

- Created a fire fighting robot using the Arduino Microcontroller, Infrared Sensors, Ultrasonic sensor, Servos.
- Led team to complete it's first competition since inception.

## CLASSES

Computer Science 1, Data Structures, Embedded Control, Algorithms, Foundations of Computer Science, Computer Components and Operations, CAD, Multivariable Calculus, Differential Equations, Visual Communications

## SKILLS

*Languages*: Python, C++, HTML/CSS, Javascript, JSON, LaTeX

*Programs/Frameworks*: git, Eclipse, Visual Studios, Django, Bash, Databases, Siemens NX, Pspice, KiCad, Adobe Photoshop, InDesign & Illustrator.

*Operating Systems*: Unix/Linux(Ubuntu/Debian, Fedora), Windows 7/8

*Hardware*: Oscilloscopes, Soldering, Multimeters, Power Supplies, Circuit Design

*Other*: Limited Working Proficiency in German

## HONORS

*Dean's List*, Rensselaer Polytechnic Institute, *National Honors Society*, Pennridge High School, *Distinguished Honor Roll*, Pennridge High School