

Aaron Gunderson

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EDUCATION

Bachelor of Science, Computer Science,
Rensselaer Polytechnic Institute, Troy, NY

GPA: 3.26 May 2017

PROJECTS

Software Developer Whiteboard

January 2014-Present

- Developed Whiteboard, a Django(Python) web application for crowd sourced assignment and grade tracking
- Grew team from two developers to six developers helping the new developers learn web development and contribute to open source software
- Led project from design stage to deployment on Amazon Web Services(AWS)

Software Developer, Observatory, Open Source Project Tracker

January 2013-Present

- Maintained and added features to legacy system built using Django
- Design and leading development of ground up rebuild using MEAN stack

Electronics Team Assistant Lead, Rensselaer Electric Vehicle

Fall 2013-Fall 2014

- Designed Control System for our Urban Concept Car and helped lead development for our next Prototype Car
- Manage Control Systems team inside of the electronics team
- Organized six person team and reported regularly to our Project Manager and President on research and design tasks as the Acting Lead over the summer

Associate Member, Alfred the ButlerBot, Embedded Hardware Club

Fall 2013-Spring 2014

- Worked to design, build and program a self driving robot.
- Helped write Android application for drink dispensing that utilized OpenCV

Associate Member, ArduinoDrone

Spring 2014

- Interfaced sensors with Arduino including accelerometer, GPS sensors, altitude and pressure sensors and designed simple Autopilot capabilities

LEADERSHIP

Lead Mentor Rensselaer Center for Open Source(RCOS)

January 2015-Present

- Worked on a team of five lead mentors overseeing 150 student developers
- Lead meetings, manage mentors and help ensure projects and members are successful
- Helping to restructure to handle the growth in members and projects while maintaining quality and reputation

Mentor Rensselaer Center for Open Source(RCOS)

Summer 2014-Present

- Mentor providing members with programming guidance and other services to the RCOS community including volunteering and maintaining our custom built open source project tracking system

Undergraduate Programming Mentor, Rensselaer Computer Science Department

Fall 2014

- Worked as an undergraduate teaching assistant for Computer Science 1
- Assisted student's with learning programming concepts, debugging code and best coding practices

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

President, Pennridge High School Robotics Club

September 2011-June 2013

SKILLS

Languages: Python, C++, HTML, CSS, Javascript, LaTeX

Programs/Frameworks: git, Eclipse, Visual Studios, Django, Flask, node.js, Express.js, Databases, Siemens NX

Operating Systems/Platforms: Unix/Linux, Windows, Amazon Web Services, Heroku

Other: Excellent communication skills, Limited Working Proficiency in German

COURSEWORK

Data Structures, Algorithms, Agile Prototype Development, Computational Vision, Computer Architecture, Networks and Operating Systems, Foundations of Computer Science, Computer Components and Operations, Embedded Control, CAD, Multivariable Calculus, Differential Equations, Visual Communications

AWARDS

YHack 2014: Best Use of Pebble SDK Award and Craziest Hack by ThinkGeek award. View on Challenge Post