

# ROSHAUN BRADY

## EDUCATION

### Rensselaer Polytechnic Institute

BS in Mechanical Engineering  
Minor Electrical Engineering  
Expected May 2020 | Troy, NY

## CONTACT

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## LINKS

Website: [roshaunbrady.github.io](https://roshaunbrady.github.io)  
Linkedin://roshaunbrady007

## COURSEWORK

Electric Circuits  
Embedded Controls  
Elements of Mechanical Design  
Modeling & Control Systems  
Digital Control Systems  
Electronic Instrumentation  
Propulsion Systems  
Strength of Materials  
Computer Science  
Inventors Studio  
Visual Processing

## EXTRACURRICULARS

National Society of Black Engineers  
» Treasury '17-'18  
» Senator '16-'17  
Annual NSBE/SHPE Career Fair  
» Treasury '18  
» Recruiting Committee '17  
RPI TV  
» Secretary '16  
» Business Manager '17  
Black Student Association  
4RWI Alpha Team  
» Leadership Winner '16  
Corona Panthers Pathfinder Club  
Capital City SDA Church  
» Programs Coordinator '18

## EXPERIENCE

### Tesla | Hardware Engineering Intern

FREMONT, CA

AUG 2019 - DEC 2019

- » Conducted comprehensive system tests on various energy products, such as Tesla Megapack, V3 Solar Panels, Solar Inverters, and MCI's, for ideal solar system integration.
- » Developed Python code in conjunction with MySQL and Tableau to analyze and maintain solar roof performance data.
- » Developed standard documentation for the NEC on solar panel construction and PV safety requirements.

### Amazon | Technical Operations Intern

COPPELL, TX

JUNE 2019 - AUG 2019

- » Managed the technical operations of DFW6 Amazon Fulfillment Center for optimal system performance.
- » Engineered a new operations process for the non-conveyance sector of facility and designed a robust catwalk for maintenance care.
- » Assisted Amazon Robotics technicians with improving and repairing equipment.

### FirstEnergy | Portfolio Engineering Intern

AKRON, OH

AUG 2018 - DEC 2018

- » Managed the selection, prioritization, and management of DX and TX portfolios (5.6B per year).
- » Assisted project managers with the initial scoping, estimating, and design of various electric projects.

### SelfArray | Engineering Intern, NSF Grant #1758627

TROY, NY

JUNE 2018 - AUG 2018

- » Developed a new python based image analyzing software (ASASIN) capable of feature detection.
- » Designed a precision automation tool to control and enhance our patented assembly process for micron-sized LEDs using NX.
- » Conducted research on the assembly of LEDs on different stages to find optimum vibration conditions which increased assembly efficiency by 26%.

## PROJECTS

### Flight State ID Sensing via AI | Aerospace Research Project

JAN 2020 - MAY 2020

- » Currently using machine learning with TensorFlow & Python to identify flight state

### 3-D Human-Centered Simulation | Visual Processing Project

MAR 2019 - MAY 2019

- » Created a 3D "game" containing 3 different rooms with the purpose of evoking different emotions in the user, respectively.

### Smart Car | Embedded Hardware Project

JAN 2018 - MAY 2018

- » Developed code and implemented hardware to design a "Smart Car" that can detect obstacles and drive independently towards a given heading. Based on user input, the car could also carry out various tasks within a given time frame.

### Optical Communications Link | Team of 4

DEC 2017

- » Used an optical transmitter and receiver circuit to send a series of light pulses that encoded an audio signal to be received by a speaker. Tested using the Wii Theme song.

## SKILLS

**Software:** SolidWorks, NX8.5, LabView, PSpice, MATLAB, Arduino, AutoCAD, Microsoft Office, Visio, Oracle (OPPM), MySQL, TensorFlow

**Coding Languages:** Python, C, Java, HTML, CSS, JavaScript, OpenCV Library\*

**Mechanical/Electrical:** Circuit Building, Arduino, Metal/Plastic Welding, Lathe, Drill Press, Milling Machines, Band Saw

**Audio/Visual:** Adobe Premiere Pro CC Editing Program, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, 4k Cameras