

ROSHAUN BRADY

EDUCATION

Rensselaer Polytechnic Institute

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

CONTACT

Addr: 145-99 221st Street
Rosedale, NY 11413
Email: bradyr2@rpi.edu
Number: 718-744-7430

LINKS

Website: 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