ROSHAUN BRADY

EDUCATION

Rensselaer Polytechnic Institute

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

CONTACT

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LINKS

Linkedin://roshaunbrady007

COURSEWORK

Electric Circuits
Embedded Controls
Elements of Mechanical Design
Modeling & Control Systems
Electronic Instrumentation
Strength of Materials
Computer Science
Visual Processing
Comp. Components and Operations
Engineering Design and CAD

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.
» Further developing Python code in conjunction with MySQL and Tableau to analyze and maintain solar roof performance data.
» Developing 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 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

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.

Shelf Awareness | Engineering Design Project   *FEB 2017 - MAY 2017*
» Designed and constructed a rotating shelf system for those with physical limitations moving up and/or reaching for things.
» Constructed the exterior and interior shelf design, shaft design, and motor integration

SKILLS

Software: SolidWorks, NX8.5, LabView, PSpice, MATLAB, Arduino, AutoCAD, MicrosoftOffice, Visio, Oracle (OPPM), MySQL
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