

RICARDO ORTIZ

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OBJECTIVE:

To obtain a full-time opportunity in mechatronics engineering, with a focus on robotics and automated systems, that utilizes my industry experience, technical knowledge, and leadership skills

EDUCATION:

Purdue School of Engineering & Technology, Indianapolis

Bachelors of Science in Mechanical Engineering, Mechatronics Concentration

Minor in Computer Science & Mathematics

Graduation: May 2017

Cumulative GPA: 3.0

PROFESSIONAL EXPERIENCE:

Rolls-Royce Corporation, Indianapolis, IN

SU 2016

Systems Design Engineering Intern – Performance and Aerothermal Systems

- Analyzed operability in-flight testing calibration process to offer a best practice testing procedure
- Assisted Trent 1000-TEN team with producing operability in-flight test summaries to deliver to Boeing officials
- Wrote Matlab optimization script and Python data parsing tools to facilitate tasks and meet demanding deadlines

Lennox International, Product Development and Research, Dallas/Fort Worth, TX

SP 2016 – SU 2016

Mechanical Engineering Co-op – Residential Gas Furnace Products

- Built data acquisition system to understand modulating furnace component performance at the system level
- Utilized LabView and NI hardware as main GUI and data I/O interface
- Incorporated data analytics to DAQ system using R programming and Python to produce automated plots
- Conducted furnace component qualification testing and warranty analysis

Carrier Corporation, UTC Building and Industrial Systems, Indianapolis, IN

SP 2014 – SP 2015

Mechanical Engineering Intern & Computer Programming Project - Indoor Cooling Products

- Supported introduction of new line of HVAC products to meet demands of new rating standards
- Designed packaging to resolve issues of product damages during shipment resulting in savings of over \$54,700
- Produced Python GUI application to improve prototype management and tracking

ACTIVITIES AND LEADERSHIP EXPERIENCE:

Founder, JagHack

SP 2016

- Project Lead for IUPUI's first 24-hour student-run hackathon

President, Society of Hispanic Professional Engineers (SHPE)

FA 2015 – SP 2016

Winning Team, Nissan Design Competition, Detroit, MI

FA 2014

- \$10,000 prize – Solution to aid victims of water scarcity at a global scale

HackMIT, Massachusetts Institute of Technology, Cambridge, MA

FA 2015

- Designed Career Development iOS app for students to practice interviewing and elevator pitch skills

Research Assistant, Optimal Plastic Injection Molding Tooling Design through Advanced Additive Manufacturing

Walmart U.S. Manufacturing Innovation Fund Research Team

FA 2014 – SP 2015

- Summarized technical documentation to support the development of a predictive model of the mechanical properties and microstructures formed on powdered metal after a Selective Laser Sintering process.

Recruitment and Career Ambassador, School of Engineering and Technology

FA 2014 – FA 2015

Mathematics Mentor, Mathematics Assistance Center, Indianapolis, IN

SP 2012 – SP 2014

SKILLS:

PTC Creo, Solidworks

Java, C++

Assembly, R

Fluent in written and

Matlab, LabView

Python, C

HTML&CSS

spoken Spanish

HONORS AND AWARDS:

- 2015 SHPE-Indiana **Rolls-Royce** Scholarship Award

FA 2015

- Willis **Carrier** Scholar

SP 2014 - SP 2015

- **Tutor of the Year Award**, Mathematics Assistance Center

SP 2014