Ryan Kohls

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Online Portfolio: RyanKohls.github.io

Education

California Polytechnic State University, San Luis Obispo   Expected Graduation: June 2019
Bachelor of Science in **Industrial Engineering**   GPA: 3.62/4.00

Engineering Internships and Research Experience

Viasat   **June 2018-September 2018**
New Product Introduction Engineering Intern   Phoenix, AZ

- Developed products

Cal Poly Corporation   **October 2017-January 2018**
Research Assistant   San Luis Obispo, CA

- Researched applications of wearable and flexible electronics and methods for printing antennas and sensors for military applications

Ernie Ball   **March 2017-March 2018**
Manufacturing Engineering Intern   San Luis Obispo, CA

- Data analysis of scrap and rework reports to determine key factors affecting losses
- Developed the St Vincent HH guitar and Stingray 2018 Bass including 3D modeling, prototyping, and preparation for mass production
- Transitioned manufacturing from manual to automated manufacturing cells involving 6-axis robotic arms, RFID systems, and programmable logic controllers. Now accounts for 50% of total factory production

California Polytechnic State University   **June 2017-September 2017**
Undergraduate Researcher   San Luis Obispo, CA

- Developed machine learning algorithms for drone routing and inventory tracking
- Researched and implemented heuristics for solving variants of the travelling salesman problem
- Created a proposal to turn San Luis Obispo into a Smart City by eliminating waste using RFID-enabled reusable takeout containers

Engineering Projects and Skills

Data Analysis: Created a simulation with competing neural networks to study the effect of price discrimination on profitability. I have done projects involving advanced regression techniques, machine learning algorithms, mixed integer programming, and database design.

Programming: Python, SQL, C#, VBA, and HTML/CSS

Boeing Engineering Accelerated Mentorship Program: Led a team that presented an RFID project to senior Boeing engineers

3D Printing: Built a FDM 3D printer for personal use and designed several 3D printed jigs

Leadership and Involvement

Engineering Supervisor: Coached 3 industrial engineering teams—each doing process improvement projects with local companies—and led activities teaching topics such as time studies, work sampling, and learning curve

EOP Center Tutor: Tutored students in introductory physics classes and developed study plans