
Ryan Kohls

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Online Portfolio: [RyanKohls.github.io](https://ryankohls.github.io)

Education

California Polytechnic State University, San Luis Obispo
Bachelor of Science in Industrial Engineering

Expected Graduation: June 2019
GPA: 3.62/4.00

Work Experience

Cal Poly Corporation

October 2017-Present

Research Assistant

San Luis Obispo, CA

- Researched applications of wearable and flexible electronics and methods for printing antennas and sensors for military applications
- Interviewed academic and industry experts in IOT to assess the technical readiness level of the printed electronics industry

Ernie Ball

March 2017-March 2018

Manufacturing Engineering Intern

San Luis Obispo, CA

- Managed multiple projects at every stage of the product development life cycle: R&D, product design, prototyping, and preparation for mass production
- Supported automated manufacturing cells involving 6-axis robotic arms, RFID systems, and programmable logic controllers

California Polytechnic State University

June 2017-September 2017

Undergraduate Researcher

San Luis Obispo, CA

- Created a proposal for turning San Luis Obispo into a Smart City by eliminating waste using reusable takeout containers equipped with RFID tags
 - Submitted research paper for publication in the IEEE IOT journal
 - Used machine learning in Python to solve various drone routing problems
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Projects and Skills

Data Analysis-Advanced regression techniques to determine the cause of rework in a manufacturing plant and predict future expenses. Experience with SQL, Python, and R.

Boeing Engineering Accelerated Mentorship Program-Competed in engineering challenges at Boeing and presented a project to senior Boeing engineers on the use of RFID to improve luggage tracking

3D Printing-Interest in 3D printing and built a FDM 3D printer for personal use

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