Ryan Kohls

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Personal Portfolio: RyanKohls.github.io

Education

California Polytechnic State University, San Luis Obispo

B.S. in **Industrial Engineering**   GPA: 3.7/4.0

M.S. in **Industrial Engineering**   Expected Graduation: **June 2020**

Engineering Internships and Research Experience

Apple   **January 2019 – Current**

Design for Manufacturing Engineering Intern   Cupertino, CA

- Saved an estimated $20 million in manufacturing costs through PCB design optimization
- Worked with contract manufacturers and suppliers to address yield issues and develop new manufacturing processes
- Led training in statistical analysis, design of experiments, and data driven decision making for 100 engineers

Viasat   **June 2018 – January 2019**

NPI Engineering Intern and IE Intern   Tempe, AZ

- Supported PCB assembly and mechanical assembly of several high-power RF modules
- Saved $50,000 by creating a linear program to optimize production allocation for Viasat's global supply chain

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
- Track chair at RFID Journal LIVE for RFID applications in retail businesses

Ernie Ball   **March 2017-March 2018**

Manufacturing Engineering Intern   San Luis Obispo, CA

- Developed the St Vincent HH guitar and Stingray 2018 Bass including 3D modeling, prototyping, and preparation for mass production

Engineering Projects and Skills

Operations Research Lead: Led a team that developed a production planning tool for Ernie Ball. Optimized production schedule using mixed integer programming.

Data Analysis: Created a simulation with competing neural networks to study the effect of price discrimination on profitability.

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 lean manufacturing

Boeing Engineering Accelerated Mentorship Program: Led a team that presented an RFID project to senior Boeing engineers as part of Boeing's mentorship program.