# Ryan Kohls

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Online Portfolio: RyanKohls.github.io

## Education

California Polytechnic State University, San Luis Obispo

B.S. in **Industrial Engineering**                    Expected Graduation: **June 2019**

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

## Engineering Internships and Research Experience

**Apple**                                                      **January 2019 – Current**

DFM Engineering Intern, Special Projects Group                          Cupertino, CA

- Worked with PCBA suppliers to determine the root cause of yield issues
- Performed various DOEs to optimize the SMT assembly process

**Viasat**                                              **September 2018 – Current**

Industrial Engineering Intern                                 Carlsbad, CA (remote)

- Developed a large mixed integer program for optimizing high-volume global supply chains
- Created simulation models to validate process improvement projects

**Viasat**                                       **June 2018 – September 2018**

New Product Introduction Engineering Intern                              Tempe, AZ

- Expedited EVT builds for several products at the PCBA and module level
- Coordinated assembly, testing, and rework with suppliers, electrical engineers, and technicians

**Cal Poly Corporation**                              **October 2017-January 2018**

Research Assistant                                              San Luis Obispo, CA

- Researched applications of flexible electronics and methods for printing sensors and passives
- 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

- 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 neck production
- Developed the St Vincent HH guitar and Stingray 2018 Bass (3D modeling and prototyping)

## Engineering Projects and Skills

**Operations Research Lead:** Led a team that developed a large-scale 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.