

# NICK RENDA

[www.nick.engineer](http://www.nick.engineer)

## EDUCATION

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- University of California, Berkeley**
- M.S. Mechanical Engineering, emphasis in product design  
Jan 2016 – Dec 2016
  - B.S. Mechanical Engineering, with honors  
Aug 2011 – Dec 2015

## EXPERIENCE

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- Apple**
- Designed the speakers and microphones in the 2018 MacBook Air
  - Worked closely with cross-functional teams to achieve audio performance targets despite challenging space, manufacturing, and schedule constraints
  - Traveled extensively to Asia to visit component suppliers, as well as overseeing system builds at the final assembly site
- Product Design Engineer  
Feb 2017 – present
- Product Design Intern
- Solved a critical audio performance issue in the 2015 Retina iMacs and 2016 MacBook Pro with Touch Bar
- May 2016 – Aug 2016  
Jan 2015 – Aug 2015

- Tesla Motors**
- Redesigned production parts in drive units to solve reliability issues
  - Coordinated with vendors to create new tooling and validate design changes
  - Developed test fixtures to measure expansion of rotors during high speed spin tests
- Propulsion Systems Intern  
May 2014 – Aug 2014

- Lockheed Martin**
- Created several concepts to resolve a test failure on a satellite module
  - Designed parts capable of satisfying stringent stress and thermal requirements imposed by harsh launch conditions
- Structures Engineering Intern  
May 2013 – Aug 2013

## TEAMS

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- INSTAR Research Group**
- Led lab research team in developing an electric go-kart with a kinetic energy recovery system
  - Designed and manufactured a mount to securely attach a flywheel to the go-kart
- Lab Director  
Jan 2013 – Jan 2016

- Formula SAE**
- Designed several components of the suspension and chassis subassemblies
  - Implemented a data acquisition system to validate design parameters
- Suspension Team  
Aug 2011 – Aug 2013

## ORGANIZATIONS

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- Pi Tau Sigma Honor Society**
- Led recruitment process for the largest pledge class in UC Berkeley chapter history
  - Served as a mentor for potential Mechanical Engineering students
- External Vice President

- Boy Scouts of America**
- Built 7 mobile wooden racks for storing high school marching band uniforms
  - Increased efficiency of uniform distribution process by removing a bottleneck
- Eagle Scout

## SKILLS

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- Software**
- NX, SolidWorks, MATLAB, JMP, Keynote, Shell Scripting, AppleScript, Photoshop
- Design and Manufacturing**
- Injection molding, sheet metal, PCB and FPC design, GD&T, CNC milling, 3D printing, lasercutting, waterjet, hand tools
- Hobbies**
- Running, hi-fi audio, scuba diving, travel and rewards programs, personal finance