Jieh Meinhold

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Portfolio: http://jmeinhold.github.io

EDUCATION

Master of Science, Mechanical Engineering
UCLA (2018-2019) June 2019 GPA: 3.63

Bachelor of Science, Mechanical Engineering
UC Davis (2014-2018) GPA: 3.63

WORK EXPERIENCE AND INTERNSHIPS

Portable Power Innovations (Electric vehicle power technology)
September 2019- October 2019
- Mechanical design/ prototyping
- FEA simulation
- Test plan/fixture design

Engineering intern: Karl Storz Imaging (Medical Devices)
Summer of 2018
- Component inspection/verification fixture design
- Design for manufacturing
- New manufacturing technology feasibility analysis

Engineering intern: Asylum Research (Atomic Force Microscopy)
Summers of 2014, 2015, 2016 & 2017
- SolidWorks FEA simulations and characterization of microcantilever resonance properties
- Research on modal stiffnesses of AFM probes
- Matlab data analysis
- Mechanical design and prototyping

CAD modeler: Spectradyne (Nanoparticle Analysis)
December 2015 - April 2016
- Mechanical design and solid modeling of instrument mechanisms/parts
- Assembly and machining

Undergraduate research assistant: UC Davis

March 2016- March 2018 **(Manufacturing research lab)**
- Research on abrasive manufacturing with an emphasis on manual operations and surface roughness characterization

November 2017- March 2018 **(MEMS lab)**
- Research on frequency response of ultrasonic micromachined transducer (PMUT)

PUBLICATIONS

Labuda, A., Kocun, M., Lysy, M., Walsh, T., Meinhold, J., Proksch, T., ... & Proksch, R. (2016). Calibration of higher eigenmodes of cantilevers. Review of Scientific Instruments, 87(7), 073705.

Labuda, A., Cao, C., Walsh, T., Meinhold, J., Proksch, R., Sun, Y., & Filleter, T. (2018). Static and dynamic calibration of torsional spring constants of cantilevers. Review of Scientific Instruments, 89(9), 093701.

SKILLS

- SolidWorks (modeling & FEA simulation)
- Matlab
- Fixture design
- Tolerance analysis
- GD&T experience
- Prototyping
- 3D printing
- Machining
- Steel heat treating
- Metalworking/Smithing

OTHER EXPERIENCE/PROJECTS

Automatic Screw Feeder Working prototype designed, built, and delivered to sponsor for capstone project at UC Davis (2018)

Modular Belt Grinder
Designed and built heavy duty modular belt grinder

Blacksmithing/Knifemaking
http://meinholdknives.com/
(2008-present)

UCSB Cosmology Lab
Mechanical design, CAD and machining (2013)

AWARDS/ACCOMPLISHMENTS

Graduation with honors (UCD)

Engineering Dean's List (UCD)

FIRST Robotics World Championships
(2014)