

Britt Tarien

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Experience

Junior Specialist | UC Davis Department of Mechanical and Aerospace Engineering | June 2018 - Present

- Building data filtering algorithms written in Python that combine GPS and accelerometer data on an iPhone to produce more accurate speed and position tracking of a competition rowboat.
- Increased accuracy over 20% and created intra-stroke data resolution.
- Publishing paper with Prof. Jason Moore in PLoS One about Kalman and complementary filters.

Mechanical Engineering Intern | Uber ATG | June - December 2017

- Member of fast-paced team of engineers, building electro-opto-mechanical instrumentation for autonomous semi-trucks.
- Designed, manufactured, and tested mounting brackets for various sensors, using modern CAD/CAM and vibration analysis software.
- Designed and built thermal test chamber for acceptance qualification of high-performance LiDARs.

Officer | UC Davis Alpine Ski & Snowboard Team | 2015 - 2017

- President for 2016-2017 season and Vice President for 2015-2016 season.
- Handled administrative details as well as delegated tasks.
- Accomplishments include expanding team membership by 50%, increasing competition turnout, and qualifying for nationals for the first time in five years.

Pier Attendant | Obexer's Boat Co. | June - September 2016

- Worked at boat dock on Lake Tahoe.
- Duties included ringing in sales, assisting in boat launches/pick-ups, maintaining yard, communicating with upper management, and assisting mechanics in boat servicing.

Skills

Software: SolidWorks, Microsoft Office

Machining: Mill, lathe, drill press, welder (MIG & TIG), laser cutter, CNC, water jet, sheet metal bender

Programming: Python, C, MATLAB, Unix, Git

Courses: Mechatronics, Internal Combustion Engines, Thermodynamics, Heat Transfer, Mechanics of Materials, Fluid Mechanics, Controls, Mechanical Design, Dynamics, Circuits

Other: High-performance driving (HPDE track events; Skip Barber 3-day racing school), Intermediate level German proficiency

Education

University of California, Davis

Bachelor of Science in Mechanical Engineering
Graduation: June 2018