

CAMERON NAUGLE

PERSONAL INFORMATION

PLACE AND DATE OF BIRTH: Roseville, CA, January 20, 1993
ADDRESS: 4691 Maureen Circle, Livermore, CA 94550
PHONE: (916) 517-9331
EMAIL: cameron.naugle@gmail.com

EDUCATION

<i>Current</i> Sep. 2011	Master & Bachelor of Science in Mechanical Engineering, California Polytechnic State University, San Luis Obispo, CA Interests: Vibrations, Rotor-Dynamics, Signal Processing and Controls Research: Rotor-dynamic gyroscopic effect, signal processing and analysis of rotor-dynamic data, gear fault detection Advisor: Xi Wu, (805) 756-5214, xwu@calpoly.edu Class List: Continuum Mechanics, Inelastic Stress Analysis, Advanced Vibrations, Rotor-dynamics, Viscous Flow, Dynamics & Thermodynamics of Compressible Flow, Advanced Heat Transfer, Turbomachinery, Controls, Ground Vehicle Dynamics, Finite Element Analysis Masters Curriculum GPA: 3.22
-----------------------------	--

WORK & CLUB EXPERIENCE

<i>current</i> June 2015	Research Assistant, California Polytechnic State University, San Luis Obispo, CA Development of signal processing software for experimental and theoretical vibration analysis. Signal processing methods were verified against current software and has been used in several experiments. A publication detailing some of this work is referred to in the "Publications" section. Advisor: Xi Wu, (805) 756-5214, xwu@calpoly.edu
Jan. 2017 Nov. 2017	Property Maintenance and Improvement, Waller Properties, San Luis Obispo, CA Drywall, exterior siding, exterior/interior painting, dirt moving, water pipeline repairs and retrofits, roofing, fence construction, and landscaping on four separate properties. Supervisor: Donald R. Waller, (805) 549-2425
Jan. 2017 Sep. 2017	Lead Electric Bicycle Mechanic, BoltAbout, San Luis Obispo, CA Assembled, maintained, overhauled, and altered electric bikes for rent. As lead mechanic, additional responsibilities were not limited to: ordering parts, communicating with manufacturer, communicating with customers, designing bike storage system for 200+ bike inventory, and designing work-flow for two mechanic's stations. Supervisor: Tavin Boynton, Co-Founder & President, (805) 858-9702, tavin@boltabout.com
Dec. 2014 June 2013	Engineering Intern, Golder Associates, Roseville and Walnut Creek, CA Engineered, designed, and modeled piping systems for incompressible and compressible fluids. Designed map drawings for industrial waste sites and estimated costs for stormwater runoff prevention preparedness. Supervisor: Noah Fennessy, (925) 956-4800, nfennessy@golder.com
Nov. 2014 Sep. 2011	Corporate Relations Director of the Engineering Student Council (ESC), California Polytechnic State University, San Luis Obispo, CA Provided contact between college of engineering clubs and companies. Coordinated involvement of companies with school events and directed the Western Region Conference with over 40 attendees.

COMPUTER PROGRAMS

MATLAB, LabVIEW, Abaqus, LS-DYNA, TrueGrid, ADAMS, Simulink, AutoCAD, SolidWorks, \LaTeX , MS Excel, MS Word, MS Project, ArcGIS, PipeFLO, EES, bash, Linux OS, Windows OS

PUBLICATION, INTERESTS AND ACTIVITIES

- Research paper published in the Journal of Applied Mechanical Engineering on the topic of verifying theoretical rotor-dynamic models of overhung rotating disks: [A Full Spectrum Analysis Methodology Applied to an Anisotropic Overhung Rotor](#).
- Design and construction of a data acquisition system for the analysis and monitoring of rotating machinery. Implementation in the current undergraduate and graduate vibrations lab.
- Senior project designing and building a flight test rig for a small ram air turbine.
- Research project on vibration of a windmill transmission from gear tooth damage. Use of ADAMS simulations and experiment to provide gear deflections and MATLAB to analyze data(Wavelet and FFT signal analysis).
- Air motor constructed using various machines, including the lathe and the vertical mill.
- Engine swap on a 1999 Volvo V70XC. Self taught from a combination of online forums and under the hood figuring.
- Avid hiker, backpacker, cyclist, and woodworker.