

CAMERON NAUGLE

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EDUCATION

<i>current</i> Sep. 2011	Master & Bachelor of Science in Mechanical Engineering, California Polytechnic State University, San Luis Obispo, CA 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 Senior project: designing and building a flight test rig for a small ram air turbine. Research Interests: Rotor-dynamic gyroscopic effect, signal processing and analysis of rotor-dynamic data, gear fault detection Thesis: Development of finite element modeling and signal processing software for analysis of rotating machines. Master GPA: 3.22 Advisor: Xi Wu, (805) 756-5214, xwu@calpoly.edu
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EXPERIENCE

<i>current</i> June 2015	Research Assistant, California Polytechnic State University, San Luis Obispo, CA Developed a signal processing software to analyze theoretical and experimental rotor systems. Methods were verified against a comparable software, and research experiments have continued. See "Publication" section. Advisor: Xi Wu, (805) 756-5214, xwu@calpoly.edu
Jan. 2017 Nov. 2017	Property Maintenance and Improvement, Waller Properties, San Luis Obispo, CA Moved earth, repaired and retrofitted water pipe lines, applied interior and exterior paints and finishes, and installed fencing, siding, roofing, and drywall at four properties. Supervisor: Donald R. Waller, (805) 549-2425, donald.waller@morganstanley.com
Jan. 2017 Sep. 2017	Lead Electric Bicycle Mechanic, BoltAbout, San Luis Obispo, CA Assembled, maintained, overhauled, and altered electric bikes for a school sponsored bike rental startup. As lead mechanic, additional responsibilities included but were not limited to the following: ordering parts from manufacturers and communicating quality control problems, designing and building a storage system for more than 200 bikes, redesigning work-flow stations for two mechanics, and provided customer service. 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 Drafted industrial waste site maps and estimated the cost of stormwater runoff prevention preparedness. Engineered, designed, and modeled piping systems for various incompressible and compressible fluids. Supervisor: Noah Fennessy, (925) 956-4800, nfennessy@golder.com
Nov. 2014 Sep. 2011	Corporate Relations Director, Engineering Student Council, California Polytechnic State University, San Luis Obispo, CA Directed the Western Region Conference in 2015, and coordinated company involvement in club events. Supervisor: Michael Waddington, President, (510) 589-8562, mjwaddy@gmail.com

COMPUTER PROGRAMS, PUBLICATION AND INTERESTS

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

"A Full Spectrum Analysis Methodology Applied to an Anisotropic Overhung Rotor," *Journal of Applied Mechanical Engineering*, September, 2016. A verification of rotor-dynamic theoretical models with overhung rotating disks.

Designed and constructed a data acquisition system to monitor and analyze rotating machinery. Installed the system in the Donald E. Bently Center for Engineering Innovation, and the Solar Turbines and Bently-Nevada Vibrations and Rotordynamics Lab.

Analyzed windmill transmission vibrations resulting from gear tooth damage. Performed experiments and simulations with ADAMS to deflect gears and analyzed data in MATLAB (Wavelet and FFT signal analysis).

Hobbies: hiking, backpacking, cycling, skiing, gardening, baking, photography, and woodworking.

Constructed an air motor with a lathe, vertical mill, broach and other machines.

Completely replaced a 1999 Volvo V70XC engine.