Cameron Naugle

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Roseville, CA, January 20, 1993
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Education

Current – 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-dynamcis, Viscous Flow, Dynamics & Thermodynamics of Compressible Flow, Advanced Heat Transfer, Turbomachinery, Controls, Ground Vehicle Dynamics, Finite Element Analysis

Research Interests: Rotor-dynamic gyroscopic effect, signal processing and analysis of rotor-dynamic data, gear fault detection

Masters GPA: 3.22 — Advisor: Xi Wu, (805) 756-5214, xwu@calpoly.edu

Experience

current – 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 "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

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, 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 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, Engineering Student Council, California Polytechnic State University, San Luis Obispo, CA

Provided contact between college of engineering clubs and companies. Cooridinated involvement of companies with school events and directed the Western Region Conference with over 40 attendees.

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
- 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 lathe and 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, gardener, baker and woodworker.