Cameron Naugle

4691 Maureen Circle, Livermore, CA 94550
Roseville, CA, January 20, 1993
cameron.naugle@gmail.com
(916) 517-9331

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

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

Experience

current
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.