Cameron Naugle

Personal Information

Place and Date of Birth:	Roseville, CA | 20 January 1993
Address:	316 Leroy Ct., San Luis Obispo, CA 93405
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Work & Club Experience

current – June 2015
Research Assistant, California Polytechnic State University, San Luis Obispo, CA
Research for advisor on developing 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

Dec. 2014 – June 2013
Engineering Intern, Golder Associates Roseville, CA 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

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. Cooridinated involvement of companies with school events and directed the Western Region Conference with over 40 attendees.

Education

Current – Sep. 2011
Masters of Science in Mechanical Engineering, California Polytechnic State University, San Luis Obispo
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
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
GPA: 3.22

Computer Programs

MATLAB©, LabVIEW, Abaqus, LS-DYNA, TrueGrid, ADAMS, Simulink, AutoCAD, SolidWorks, LaTeX, MS Excel, MS Word, MS Project, ArcGIS, PipeFLO, EES

Publication, Interests and Activities

- Research paper published in the Journal of Applied Mechanical Engineering discussing new methods for 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.
- Avid hiker, backpacker, cyclist, and woodworker.