

# CAMERON NAUGLE

## PERSONAL INFORMATION

---

PLACE AND DATE OF BIRTH: Roseville, CA | 20 January 1993  
ADDRESS: 316 Leroy Ct., San Luis Obispo, CA 93405  
PHONE: (916) 517-9331  
EMAIL: [cameron.naugle@gmail.com](mailto:cameron.naugle@gmail.com)

## WORK & CLUB EXPERIENCE

---

- |                             |   |
|-----------------------------|---|
| <i>current</i><br>June 2015 | Research Assistant, California Polytechnic State University, San Luis Obispo, CA<br>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, <a href="mailto:xwu@calpoly.edu">xwu@calpoly.edu</a>  |
| Jan. 2017<br>Nov. 2017      | Property Maintenance and Improvement, Waller Properties, San Luis Obispo, CA<br>Drywall, exterior siding, exterior painting, moving dirt, water pipeline repairs and retrofits, roofing, fence construction, landscaping.   |
| Jan. 2017<br>Sep. 2017      | Lead Electric Bicycle Mechanic, BoltAbout, San Luis Obispo, CA<br>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. Supervisors: Tavin Boynton, Co-Founder & President, <a href="mailto:tavin@boltabout.com">tavin@boltabout.com</a> , (805) 858-9702, Matt Maxwell, Co-Founder & CEO |
| Dec. 2014<br>June 2013      | Engineering Intern, Golder Associates Roseville, CA and Walnut Creek, CA<br>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<br>Sep. 2011      | Corporate Relations Director of the Engineering Student Council (ESC), California Polytechnic State University, San Luis Obispo, CA<br>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.  |

## EDUCATION

---

- |                             |  |
|-----------------------------|--|
| <i>Current</i><br>Sep. 2011 | Masters of Science in Mechanical Engineering, California Polytechnic State University, San Luis Obispo<br>Interests: Vibrations, Rotor-Dynamics, Signal Processing and Controls<br>Research: Rotor-dynamic gyroscopic effect, signal processing and analysis of rotor-dynamic data, gear fault detection   Advisor: Xi Wu<br>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<br>Masters Curriculum GPA: 3.22 |
|-----------------------------|--|

## COMPUTER PROGRAMS/SKILLS

---

MATLAB, LabVIEW, Abaqus, LS-DYNA, TrueGrid, ADAMS, Simulink, AutoCAD, SolidWorks,  $\text{\LaTeX}$ , 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 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.
- Full engine swap on a 1999 Volvo V70XC. Self taught mechanic skills from a combination of online forums and under the hood figuring.
- Avid hiker, backpacker, cyclist, and woodworker.