

Jonah Jeffries

4819 Oxbow Circle W, Houston, TX 77441

• Phone: +1-907-841-4847 • jonahjeffries@gmail.com • jpjeffries@alaska.edu

Career Objective

2017 Graduate with BS in Electrical Engineering with honors & awards, and intern experience at the Trans-Alaska Pipeline crude oil terminal (summer 2016), seeking a career in the development of electrical and/or electronic solutions within the energy or engineering sector to kick-start my career, develop expertise, and be part of a team focused on solving complex engineering challenges.

Education

2017 Graduate from the University of Alaska Fairbanks School of Engineering & Mines: **Magna cum laude GPA 3.84**
Course work includes Electrical and Computer Engineering, Calculus I,II,III, Physics, Mechanics, Chemistry, and associated labs.

Work Experience

Summer Intern 2016 – Alyeska Pipeline Servicing Company Trans- Alaska Pipeline Terminal Valdez, Alaska

As intern, relevant work includes:

- Developed electrical installation instructions for field technicians.
- Assisted in engineering field operations, troubleshooting, maintenance & determining corrective actions on electrical instruments and control systems.
- Reviewed CAD drawings with electrical and mechanical designers to determine adherence to codes and specifications. Examples of CAD work include electrical one-line diagrams, interconnection diagrams, building electrical layouts, and piping & instrumentation diagrams (P&ID).
- Made routine site visits to the Valdez Marine Terminal industrial facility to revise engineering designs.
- Contributed to long term building projects. Examples of work included – line/load analysis for proper cable sizing, breaker protection & panel bus rating, replacement of 18 ft diameter warehouse fans which required proper sizing and included new variable frequency drives for efficiency of speed controls, and rerouting of interconnecting 24 V control system which required changes to associated drawings.

Achievements

2017 Department of Energy National Collegiate Wind Turbine Competition: 3rd Place overall

Alaska Ocean Sciences Bowl – Team Lead and 2nd Place State Champion 2010

National Science Olympiad – 27 time medal recipient & 5 time State Champion & Alaska rep for National Events

Science Bowl – State Champion 2012

American Institute of Architects – Fourth place in Alaska 2012 Frank Maier High School Design Competition

AP Calculus – Aced the Advanced Placement Calculus I exam in High School Junior Year

Volunteer Work/Community Service

As a resident of Wasilla, Alaska:

United Way Champion for Change Volunteer

National Science Olympiad Wasilla, Alaska

April 2010 - April 2011

- Judged Science Olympiad Events and Assisted Middle School Teams

Math tutor to peers and junior students

Community improvement projects for Parks and Recreational Areas

Activities

Member: Institute of Electronic and Electrical Engineers (IEEE)

August 2017 - Present

UAF National Collegiate Wind Competition Team

September 2016 – Spring 2017

Designed and constructed power converter system for small scale wind turbine

Member: Tau Beta Pi Engineering Honor Society

September 2015 – Present

UAF Micro-mouse Competition Team

Fall 2014 – Spring 2015

Robotic construction, motor control circuits and source code development

Alaska Ocean Sciences Bowl

October 2009 – February 2012

Oceanography, delivery of research work/studies, team building and public speaking

National Technical Honor Society

August 2010 – May 2013

Secretary – High School Senior Year

National Science Olympiad

October 2006 – May 2013

Developed engineering and general science skills, including the construction of mechanical & electrical machines: robotics, aerodynamics, material strength analysis, forensic science, and study of the physical world.

Skills

Experienced with AutoCAD and EagleCAD drafting software

Proficient in ASPEN Academic Suite, PowerWorld Simulator, and Cadence PSpice Circuit Simulation software

Building and troubleshooting digital and analog component level circuitry

Proficient in programming in C and MATLAB

Experienced in use of Microsoft Office Suite

References

Elizabeth Allman

Professor; University of AK, Fairbanks
Dept. of Mathematics & Statistics
P.O Box 756660
Fairbanks, Alaska 99775-5915
+1-907-474-2479 /
e.allman@alaska.edu

Richard Wies

Associate Professor; University of AK,
Fairbanks
Electrical & Computer Engineering Dept.
P.O. Box 755915
Fairbanks, AK 99775-5915
+1-907-474-7071 / rwwiesjr@alaska.edu

Lambros Klaoudatos

President - BP Shipping (USA)
201 Helios Way
Houston, TX 77079
+1-832-619-4156 /
Lambros.Klaoudatos@bp.com