LAURA MCNERNEY

EDUCATION

University of Utah Dec 2016
Masters of Science in Mechanical Engineering with emphasis in Aerodynamics
- Graduated Summa Cum Laude: GPA 4.0

Masters of Science in Geography May 2016
- Graduated Summa Cum Laude: GPA 4.0
- Fully funded Research Assistant on National Science Foundation Grant

University of California, Los Angeles – Henry Samueli School of Engineering June 2014
Bachelor of Science in Civil Engineering with a minor in Geographic Information Systems and Technology
- Graduated Cum Laude: GPA 3.7

Coursework – Aerodynamics; Object Oriented Programming; Fluid Mechanics; Statics; Dynamics; Statistics; Turbulence; Thermodynamics; Heat Transfer; Mechanics of Materials; Differential Equations; Linear Algebra

FLIGHT QUALIFICATIONS

Total Hours – 2918.7
- Turbine – 1402.1
- PIC – 1468.4
- Multi-Engine – 1652.8
- Dual Given – 426.8

Ratings
- Airline Transport Pilot: Airplane Multi-Engine Land
- Instructor: Airplane Single-Engine, Airplane Multi-Engine, and Instrument Airplane
- Commercial: Airplane Single-Engine Land and Sea
- Type: B-737, EA500S, CL-65

SKILLS

Software/Hardware
- Python, QGIS, ArcGIS, JavaFX, Processing, C++, MATLAB, HTML, CSS

Miscellaneous
- Wilderness First Responder: certified with 80 hours of emergency medical training to provide first response in the backcountry
- Avid backcountry skier, downhill skier, traditional climber, sport climber, half marathon runner, cross-country mountain biker

WORK EXPERIENCE

Delta Air Lines – Atlanta, Georgia Nov 2019-Present
Pilot – First Officer on Boeing 737
- Ability to perform well under extreme pressure while concisely articulating and executing critical tasks

Fresh Aircraft Sales – Scottsdale, Arizona Mar 2017-Nov 2019
Pilot and Instructor Pilot
- Ferried aircraft across the country: managed maintenance compliance, cross-country planning, and weather avoidance
- Taught 20 students ranging from private to instrument candidates

SkyWest Airlines – Saint George, Utah Nov 2017-Oct 2019
Pilot – Captain on CRJ 200/700/900
- Worked with the Critical Incident Response team to provide support to pilots after an accident and developed tactics to reduce the quantity of incidents amongst pilot group

BAE Systems – Hill Air Force Base, Utah May 2016-Aug 2016
Mechanical Engineer
- Worked with team to design blast valves for rockets in Python and MATLAB
- Saw a need and designed an onboarding application for new hires using JavaFX and CSS

University of Utah – Salt Lake City, Utah Aug 2014-May 2016
Research Assistant
- Built and designed computational fluid dynamics flow models for research project studying fluid dynamics of englacial networks on the Greenland ice sheet; used MATLAB to analyze turbulent flow dynamics

University of California, Los Angeles – Botswana, Africa June 2013-Jan 2014
Engineering Intern
- Conducted fieldwork in Botswana with Professor Greg Okin's team to study dune reactivation in the Kalahari
- Responsible for mapping the project in ArcGIS, collecting satellite imagery, and fixing sensors in the field

University of California, Los Angeles – Los Angeles, California   Jan 2013-June 2013
Research Assistant
  ◆   Analyzed open channel flow hydrology of glacial runoff on the Greenland Ice Sheet using ArcGIS and Python

COMMUNITY_____

Engineers without Borders – Engineering Volunteer   Jan 2020-Present
  ◆   Assist the University of Utah division to map and design a water pipeline in Chosco, Bolivia to provide a clean
       and reliable water source to the people
SkyWest Critical Incident Response Program – Pilot Support Volunteer   July 2018-Oct 2020
  ◆   Listen to and aid fellow pilots after a critical flying incident or accident
Angel Flight West – Command Pilot   July 2019-July 2020
  ◆   Provide safe and free air transportation for people in need due to health issues
Girls on the Run Nonprofit – Running Coach   Jan 2016-Jan 2019
  ◆   Mentor and supervise 24 fifth grade young women twice a month to complete annual 5K race
SkyWest Women's Assistance Committee – In-house women's advocacy group   Apr 2018-Oct 2020
_____PERSONAL AND PROFESSIONAL REFERENCES AVAILABLE UPON REQUEST_____