

# JOHNATHAN MACHLER

## ELECTRICAL ENGINEERING

### PROFILE

#### Address

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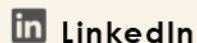
### PORTFOLIO

#### Project Website

d.umn.edu/  
~machl005



github.com/esch3r



### WORK EXPERIENCE

University Challenge

Aug. 2019–Dec. 2019

Air Force Research Lab

Duluth, MN

- **Collaborated with four MEs and two other EEs.**
- **Researched viable solutions to navigating in and transmitting location data in GPS denied environments.**
- **Developed and tested a computer vision sextant, which pinpointed our location within ~26 miles using photos of the sun.**

Electrical Engineer I

June. 2020- Aug. 2020

Leonardo DRS

Melbourne, FL

### EDUCATION

BSEE, Electrical Engineering, Expected May 2020

University of Minnesota Duluth, Minnesota

GPA: 3.05 / 4.00

### TECHNICAL SKILLS

Programming Languages C++, MATLAB, VHDL, AVR ASM, Python

Operating systems Windows, Linux, Oracle VirtualBox

Documentation Microsoft Suite, LaTeX, Maple

Modeling Cadence, PSpice, LTspice,  
Xilinx, Simulink, SolidWorks