GREGORY LUND

Boulder, Colorado | 303-562-6026 | greg.lund@colorado.edu | https://greg-lund.github.io

EDUCATION

University of Colorado, Boulder *May 2021*
Bachelor of Science, Mechanical Engineering GPA: 3.89/4.00
Bachelor of Science, Computer Science

ENGINEERING EXPERIENCE

Automated Robotics and Perception Group October 2019 - Present
Research Assistant *University of Colorado, Boulder*

- Collaborating with a team of students and faculty to design and manufacture systems in support of the DARPA Challenge team, MARBLE
- Designed and prototyped a self-contained linear actuator system for a radio package deployment aboard an autonomous robotics platform

Colorado Space Grant Consortium October 2018 - Present
RocketSat-X Structures Team & Systems Engineer *University of Colorado, Boulder*

- Collaborating with a team of students and industry sponsor to design and manufacture a sequencing mechanism for passive solar array deployment
- Utilizing CAD software to design parts for manufacturability and durability in rocket and space environments
- Utilizing a variety of machines to manufacture parts including mills, lathes, cnc mills and DMLS 3D printing.

Intro to Robotics Project Fall 2019
Chomp 2.0 (Mock Battlebot) *University of Colorado, Boulder*

- Collaborated with a team of 5 students to build and test an autonomous robotic platform
- Utilized ROS to communicate between hardware across multiple platforms
- Implemented basic robotics algorithms from odometry and mapping to background subtraction and blob detection

TECHNICAL STRENGTHS

Computer Languages	C/C++, Python, Java, MATLAB, HTML/CSS, SQL
Tools	ROS, Mathematica, LaTex, Bash/Shell Scripting
CAD	Solidworks(CSWA), Fusion 360(CAD and CAM)
Machines	Lathe, Mill, CNC/3D Printing

SELF-DIRECTED PROJECTS See *https://greg-lund.github.io*

Designed and built a midsize CNC Router
Designed and built two FDM 3D printers
Designed, built and tested a Tesla Turbine
Scratch built model airplanes and quadcopters
Experimented with electronic circuits including digital logic
Experimented with Arduino controllers including an LED based audio visualization system