GREGORY LUND

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EDUCATION

University of Colorado, Boulder *May 2021*
Bachelor of Science, Mechanical Engineering GPA: 3.87/4.0
Bachelor of Science, Computer Science

ENGINEERING EXPERIENCE

Automated Robotics and Perception Group October 2019 - Present
Mechanical Engineer *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 radio package deployment aboard an autonomous robotics platform

Colorado Space Grant Consortium October 2018 - Present
RocketSat-X Structures Team *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

Software Development Methods Project August - December 2018
Boulder Event Hub *University of Colorado, Boulder*

- Collaborated with a team of 5 students to build and deploy a working web application
- Utilized full stack development to connect a back-end SQL database with an HTML front-end

First Year Engineering Projects August - December 2017
Automated Braking System for Skateboard Users *University of Colorado, Boulder*

- Collaborated with a team of 4 students to design and fabricate a solution to runaway skateboards
- Designed and fabricated an Arduino-based controller that deployed a braking system in a matter of milliseconds
- Utilized CAD software to design and manufacture a functional contact brake pad

TECHNICAL STRENGTHS

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

SELF-DIRECTED PROJECTS

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