

# Gunnar Allison

[gunnar\\_allison@college.harvard.edu](mailto:gunnar_allison@college.harvard.edu)

417-343-2791

## EDUCATION

### Harvard University

Cambridge, MA

*Bachelor of Science, Mechanical Engineering, GPA: 3.8*

Graduation: May 2020

- *Harvard College Scholar Award 2017-18*
- *Division I Athlete – Harvard Track and Field – Throws*

**Relevant Coursework:** PID Control, Heat Transfer, Fluids, Circuit Design, Solid Mechanics, Thermodynamics, Mechanical Systems, Photonic Devices, Linear Algebra & Differential Equations, Materials Science

## EXPERIENCE

### Baker Hughes, a GE company

Houston, TX

*Engineering & Technology Intern, Drill Bits*

June 2019 – Aug. 2019

- Researched pressurized drilling simulation data to characterize hybrid oil well drill bit performance
- Automated an NXOpen program to expedite drill bit cutting analysis, saving hundreds of user hours
- Modified part designs to eliminate design redundancy, simplify inventory, improve profit/delivery time

### ZCar Depot

Springfield, MO

*Engineering Intern*

May 2017 – Present

- Designed over 150 3D printed Nissan/Datsun car parts using SolidWorks and Fusion 360
- Led a team of three to design and fabricate a hybrid Datsun 280z using a NetGain AC electric motor
- Leads production, quality control, and software/hardware enhancement for line of 3D printers

### Harvard University

Cambridge, MA

*Teaching Fellow, Mechanical Systems*

Sep. 2019 – Present

- Teaches class of 30 students on the principles of mechanical vibration
- Commits approximately ten hours per week to leading laboratory exercises, office hours, and grading

### Harvard Undergraduate Robotics Club

Cambridge, MA

*Mars Rover Project Member*

Jan. 2017 – Dec. 2018

- Contributed to an interdisciplinary team of 10 to build a rover for the University Rover Challenge
- Specialized in the driveline of the rover including a 3D-printed nylon walking style leg drive system

### Guardian Building Systems

Springfield, MO

*Construction Worker*

May 2015 – Aug. 2015

- Installed high strength insulated concrete foundations and walls for residential developments
- Developed skills in using a wide range of construction instruments

## LEADERSHIP

### Harvard Undergraduate Human Powered Vehicle Team

Cambridge, MA

*President*

Aug. 2017 – Dec. 2018

- Led team of ten engineering students to compete at the ASME Human Powered Vehicle Challenge
- Coordinated with university staff, directed team activities, and oversaw competition logistics
- Designed drivetrain and frame components using SolidWorks

### Springfield Track Club

Springfield, MO

*Volunteer/Coach*

June 2016 – Aug. 2017

- Coordinated summer throwing activities and instruction for 10+ athletes ages K-12
- Coached and demonstrated fundamental movements in the javelin, discus, and shot-put throwing events

## SKILLS & QUALIFICATIONS

**Technical:** C, C#, Python, MATLAB, NXOpen, SolidWorks, Fusion360, COMSOL, Microsoft Office

**Languages:** English, Spanish

**Laboratory:** CNC, lathe, MIG welding