

[Name]

[Menlo Email]

Date

To Whom It May Concern,

One of Playground's mottos is to work somewhere between the improbable and the impossible. This is where I live. On my own initiative, I've designed and built object tracking smart wearables for people who lose things, laser cuttable drones to lower the financial entry point for drone racing, and a 3DOF robotic wheel for rapid prototyping of rover concepts. As a passionate engineer and innovator, I feel my combination of experiences, skills, and interests make me an excellent match for your organization.

My passion for engineering and design has led me to take leadership roles in my areas of interest. As the mechanical design team leader of my school's competitive FIRST Robotics team, I coordinate the efforts of over ten students and design key elements such as robotic arms, linkages, and object manipulators. I am also responsible for teaching others CAD, Finite Element Analysis (FEA), and CNC machining. Additionally, I am the leader of a team for Project Invent, a social good program. I collaborate with six other students on developing medical devices to address foot drop for Multiple Sclerosis patients. Through these roles, I have developed crucial research, design thinking, and rapid prototyping skills, and have become a responsible teammate and effective leader. My desire to always do more has led me to begin programming, taking classes at the College of San Mateo and teaching myself MATLAB in order to create a motion capture application using MATLAB's image processing toolbox. I have achieved proficiency in several languages including Java, MATLAB, and Arduino.

My prior professional experience includes a mechanical engineering internship at ReEnvision Design where I worked with engineers and users to design a water filtration device for vulnerable populations in Uganda and Tanzania. This position entailed extensive research, prototyping, iterative design, and the production of a final prototype using injection moulding.

I'm certain that with my combination of passion and drive across both hardware and software I can be a valuable asset to Playground Global's team. Thank you for your time and consideration, and I look forward to discussing how I can help Playground work on the impossible!

Sincerely,

[Name]