

Deeplocal Hiring Team,

I am a Junior Mechanical Engineering major at Carnegie Mellon University writing to apply for the Summer 2019 Engineering Internship position. I am impressed with the projects going on at Deeplocal and would love to contribute to your work. I am confident that my experience and skills in rapid prototyping, machining, and creative thinking would be of use on Deeplocal's innovative projects and I hope that you will consider me for the position.

I understand that you regularly take on abstract challenges and must quickly find creative and cutting edge solutions, a scenario I often encountered while competing in FIRST Robotics. During my 3 years in this program, I became very familiar with the rapid prototyping process as each year we had 6 weeks to design, manufacture, and program a robot which could complete the new year's challenges. I was heavily involved with the prototyping process and even oversaw a small prototyping team for 2 of those years to work on specific subsystems of the robot. During this time, I was responsible for quickly determining the optimal solution from the prototyping experiments and CADing the final design using SolidWorks. I ensured that the subsystem was fully completed on time using a variety of manufacturing methods such as hand mills and plasma cutters. I believe that my ability to work quickly to determine optimal solutions and begin the manufacturing myself will be of great use to Deeplocal on their projects.

Additionally, while I was at DEKA Research and Development, I had the privilege to work at a company where they were able to have the resources to quickly machine their own components but also had a large machine shop where I could submit more complex parts to be machined. As a result I became much more familiar with using hand mills and lathes as I was often making my own parts for my fixtures as well as manufacturing parts for other projects as their deadlines approached. As some of my test fixtures required more complex geometry and machining processes, I also became familiar with properly dimensioning drawings such that they can be machined out of house.

While I have not had any official advertising experience, during my time working at REV Robotics, I created a number of items meant to promote the brand. One that I am particularly proud of is a miniaturized remote-control Wall-E robot using only their build system which demonstrated its capabilities outside of normal use. I headed this project and completed the design, manufacturing, and programming independently over the course of a week and a half. This project further increased my skills in CAD as the entire model was completed prior to any manufacturing work, due to the fact that the model had such tight tolerances and needed to be planned out perfectly ahead of time.

Deeplocal stands as a key innovator which operates in a distinct market to bring intriguing concepts to life. I hope to be a part of this type of high energy creative team and work to generate unique and engaging experiences to seemingly everyday products and brands. If you have any questions, feel free to contact me by phone at (817) 938-0718 or at mmong@andrew.cmu.edu. Please take some time to check out my online portfolio at www.mmong.me for more examples of my work. I really appreciate your consideration and hope to hear from you soon.

Respectfully,

Michael Mong