

Metsälinnunreitti 2 048D
Espoo 02660
Finland

6th January 2023

Some Company

Hello,

My name is Fletcher Porter. I'm a masters student studying mechanical engineering at Aalto University and I'm interested in working in your Summer Power: Engineering & Technology program.

I'm presently studying with a focus on mechatronics and robotics. I enjoy these fields for their interdisciplinary nature where I can touch a little of everything in an engineering system—the mechanical, the software, and the electrical.

Before coming to Aalto, I was a software developer for a company called Oblong making meeting software. My job was to improve the company's legacy products which entailed using a variety of software tools and languages, including Python, Linux, C++, JavaScript, and many others. The software I wrote was deployed to hundreds of sites around the world. However, I found only writing software dissatisfying. I yearned to do what I did at NASA Jet Propulsion Laboratory (JPL).

At JPL I worked on a gravity-offload testbed for studying robotic mobility for future missions to Saturn's moon Enceladus. It consisted of a robot suspended by a gravity-offloading spring from a gantry system that automatically tracked the position of the robot. I developed the mechanical, electrical, and control components of this gantry, including a camera-based vision system, power routing, and the design, fabrication, and assembly of all components.

I'm seeking now to work someplace where I can hone my skills as an engineer and gain experience working on multi-disciplinary projects. I see myself being a unique contributor to engineering teams as a mechanical engineer who knows software.

Thank you for your consideration. I hope to hear from you soon.

Cheers,

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