Maxx Tepper | Hardware Engineer

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Neuralink
Recruiting and HR
San Fransisco, CA

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Dear Neuralink Recruiter,

Technological evolution is the constant strand of thought that my mind takes on every day. It is astounding to consider what has happened with humanity in only the past half century. Since the mid-1970's, we have seen what is possible when computer technology is free to grow into something unimaginable. My passion for this growth has lead me to become a full life cycle hardware engineer developing FPGA based high-speed digital circuit boards for the UCLA High Energy Physics Group. In doing this work, what I never seem to escape are the constraints the interfaces to my technology impose on me and every other human being out to shape the world. The development of ultra-high bandwidth brain-machine interfaces at Neuralink will usher in new era of human innovation by providing the tools that will be at the forefront of every major discovery and development towards a sustainable and growing society for the future of humanity. It is my mission to see this technology come to life, and to be cause in what creations will come of it.

In my current position at UCLA, I design high-speed digital electronics for the Compact Muon Solenoid, one of the biggest particle detectors at CERN's Large Hadron Collider in Geneva, Switzerland. I am responsible for managing and executing all aspects of hardware development – including board design, schematic entry, printed circuit board layout, fabrication and assembly coordination, test bench setup, and testing and debugging – while working with physicists and engineers to ensure that the design of the boards fulfills the requirements of the experiment. I am capable of designing, developing, and testing hardware which include, but is not limited to, power components, MPSoC FPGA's, DDR4 memory, Ethernet, I2C, SPI, and multi-GHz Serdes transceivers. Learned from this experience was the value of working and communicating with a team of experts across disciplines to create something no one could create alone.

Outside of my current position, I have undergone an extensive personal and professional growth and development curriculum that grants me the ability to maintain open and integrous communicative relationships based not on the subjective meanings of things, but on what is objectively so. All human beings are incredibly powerful, occasionally succumbing to reaction, especially in teams filled with passion, differing opinions, and unlimited creativity. I look to cultivate an environment where people are free to be fully self-expressed under any circumstance while standing for the win of every team member. I am left thrilled at the prospect of partnering with the leaders heading the development of Neuralink's technology in this way.

From design, through construction, to production, my long-term goal is to seek a highly abstract role at Neurlink to engage in some of the greatest conversations in its history, and it is my dream to be at the head of every conversation. Thank you for considering my application, and I look forward to discussing the opportunity of joining Neuralink.

Sincerely,

Maxx Tepper