Danny Depe

Cover Letter

Getting straight to the point, I want to highlight the relevant portions of my experiences and aspirations.

* As a power systems engineer at SSL, I have become well-versed in analyzing a wide range of electrical power systems. I also undertook a role in testing SSL’s new power system units on a system level that includes battery dischargers (4-phase boost converter), battery chargers (2-phase buck converter) and solar power regulation (series synchronous rectifier FETs)
* In UCLA’s Magnetometer Lab, I was responsible for PCB prototyping (in Altium) power and mixed-signal boards along with iterative designs of those PCBs in a professional setting to deliver for spaceflight
* My Smart Lumbar Support project was a wearable device with many sensors implemented through an Intel Edison with Python and machine learning.
* My NATCAR project was a miniature self-controlled track-following car that depended on magnetic sensing circuits and a line-scan camera for input. This project required mastery of basic PID control theory along with understanding of the delay between the sensing of an environment and the data analysis and control determination of the car.

It would be of great pleasure to partake in a live discussion to build upon these points and emphasize my fit as a “Job Position” along with the chance to inquire more about the scope of the position itself and its scope within “Company”.