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To Justin & Jerry:

My name is Crystal and I am currently attending the University of California, Irvine as a third year, pursuing a bachelors in Electrical Engineering. I am very interested in your Senior Design Project.

The main qualities and strengths I possess that I think will benefit your team is that I am hardworking, persistent, resourceful and responsible. I have been in CalPlug for almost two years and was promoted and hired after my first quarter. I have spent many late nights at CalPlug working on projects to meet deadline and understand the hard work it takes.

Some projects I have worked on are building the Arduino library for the ADE Wattmeter, creating the Microsemi Robotic Arm, and managing the development of the Arduino and Raspi cars. For the ADE Wattmeter, we coded the library in C and it took alot of attentiveness to details. From this I not only improved my coding in C, but also I gained knowledge of the importance of data sheets, and how to efficiently use them. With the Microsemi Robotic Arm, although I am not an expert at FPGA, I was able to understand enough to be able to execute the needed function to create a function robotic arm able to move and mix test tubes. In this project I was able to understand how PWM work especially well through the servos. With the Arduino and Raspi Cars, I ensured clean documentation and also clean wiring. As a result of working on multiple projects, I understand and know different communication protocols.

Some miscellaneous skills that may be useful are my technical writing skills. Due to research, I am used to writing documentation and grants. I have been accepted for 2-3 projects for UROP and helped write two of them. I also worked in Eagle CAD briefly during my first quarter and CalPlug and Solidworks in my Engr 7A(quadcopter course).

Not only does the project interest me, but I believe that my experience working at CalPlug and on group projects in other classes has showed me the importance of actual team work. I do not ever wish to be the broken wheel of the wagon. I know I can work hard and put in the time to help this project succeed. I understand if you may want to go a different way, but I honestly would enjoy working on this project with both of you and creating something meaningful and well thought out for my Senior Design Project.

Thank you for your time and consideration. Let me know if you have any further questions.

Sincerely,

Crystal Lai