



Date: Oct. 02, 2017

To Whom It May Concern,

Yitong ZHAO has taken part in an intensive six-week long online project-based research program named CMOS Design Project: Biomedical Instrumentation Amplifiers. I was the lead instructor on this online program, and witnessed the progress of students throughout the six-week period.

In this program, students were required to work in groups of two or three and complete the design of a biomedical instrumentation amplifier based on LTSpice. Live lectures and weekly mentorship sessions were hosted through online platforms to guide the students through the project.

It is not easy for the students to complete such a project within six weeks as there are lots of principles of integrated circuit to study and calculations to work on to figure out the optimized parameters of the designed amplifier. In addition, mastery in the simulation tool and a reasonable division and cooperation in a group also play important roles to success in the project. Over the course of the program, students have shown an impressively strong drive and desire to get their circuits working to specifications. While not all students were able to successfully complete the design to spec, in part due to varying levels of experience with pre-requisite material, I was overall pleased with the level of effort and excitement the students demonstrated in their final presentations.

If you have any questions or would like more information about the program or the work students have done, please do not hesitate to contact us.

Sincerely,

A handwritten signature in blue ink that reads 'Patrick Mercier' with a checkmark at the end.

Patrick Mercier, Ph.D.  
Co-Director, Center for Wearable Sensors  
Assistant Professor, Electrical and Computer Engineering  
University of California, San Diego