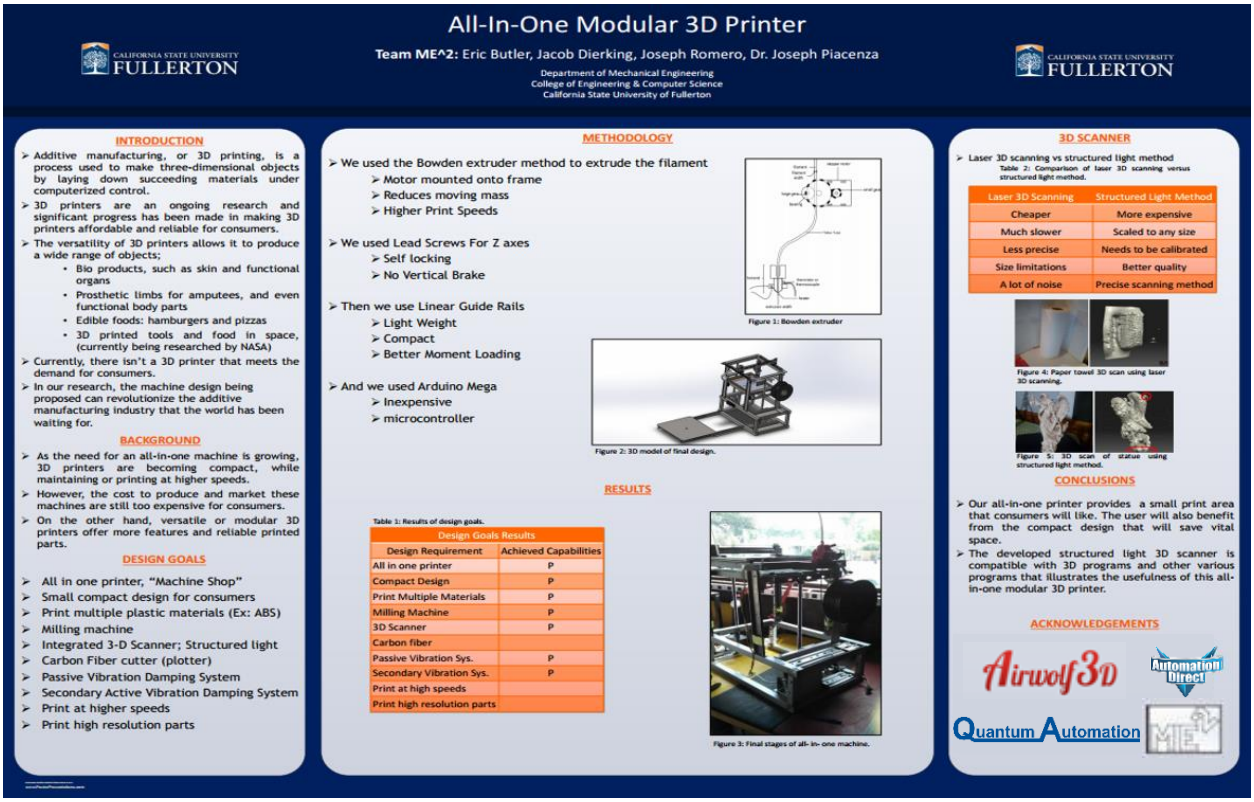
Every year, engineering students from Cal State Fullerton (CSUF) work throughout their academic year in order to create their senior project for faculty and staff to view during their ECS Student Projects Showcase and Awards. Out of all the projects that were being presented, one standout was a group's design for a functional 3D printer.



The members of the All-In-One Modular 3D Printer consisted of Eric Butler, Jacob Dierking, and Joseph Romero each bringing in their own expertise into the final development.

The team's objective is to create an all in one printer that is compact and affordable while built for heavy duty industrial workers but also for the everyday consumers. Many applications in the industrial industry can benefit from a 3D printer such as creating tools and physical prototypes. They were also

looking to achieve printing at higher speeds along with better resolution for different types of plastic materials. This was seen as a must as the manufacturing process for creating reliable tools is a long and tedious process.

Quantum Automation graciously donated stepper motors, drives, and power supplies to help with the startup idea. The items donated are less expensive than industrial equipment they could have bought from other industrial suppliers, yet at the same time are reliable than purchasing them from hobby shop. AutomationDirect is known for having quality parts at a lower price. The motors, drives, and power supplies all have the durability and power as industrial grade components but still have the price that will not break their wallet. Also when asked how it was to integrate the AutomationDirect parts into their design, it was a unanimous decision that the parts were simple and easy to install and program. Since they are looking to create a more affordable 3D printer, it would only make sense for them to use the Sure Stepper Motors, Drives and Power Supplies for the construction for the 3 axis design.

This massive undertaking by the CSUF students is about 80% complete. Quantum Automation has volunteered their efforts to technically support the Mechanical Engineering students to complete the alpha unit during the summer semester.