

"knowledge isn't power,
applied knowledge is power"



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www.TustinEngineering.com

A QUARTERLY NEWSLETTER CELEBRATING TUSTIN HIGH SCHOOL'S TECHNOLOGY & ENGINEERING PROGRAM

Projects, Projects!

The time has come to apply all that classroom theory! For our seniors in the *Engineering Capstone* class, making big projects in a small space this year has not been easy. But somehow, we're making progress on electric cars, custom guitars, confetti cannons, analog synths and more. Oh, and don't forget our upcoming EV Challenge competition.

Our 2nd-year students in *Principles of Engineering* just finished learning about electronics, sensors, coding, motors and more. Now, they are getting more time than ever before to work on their own projects. These include a parking sensor, lock decoder, RC nerf gun, custom Power Wheels car - just to name a few.

First year *Introduction To Engineering* students are hard at work preparing for the SolidWorks certification exam, but will also be finishing up the year with some custom projects that include a toy train model, 3D printed CO2 Rocket Cars and custom chess sets.



Shop Update

Progress is being made! After 13 long months of waiting, work began in earnest this past winter break. There will be extensive repairs and upgrades to the roof, AC, electrical system, plumbing, lighting, and more. Large equipment, tools, and furniture are already being ordered. There are also weekly meetings with TUSD and THS personnel, architects and contractors. With a little bit of luck, we hope to have our space back in time for the end-of-the-year T-Tech Showcase. A big shout out goes to our amazing TUSD M&O department for their hard work and diligence!



Contractors Working On Roof Repairs

Not your typical fundraiser

We really didn't have space, but we managed to squeeze in a new CO2 laser into our temporary shop. Our first projects with it are custom wood signs! These custom hand-finished signs are 18" long and will complement any space in your house, office or garage with your own

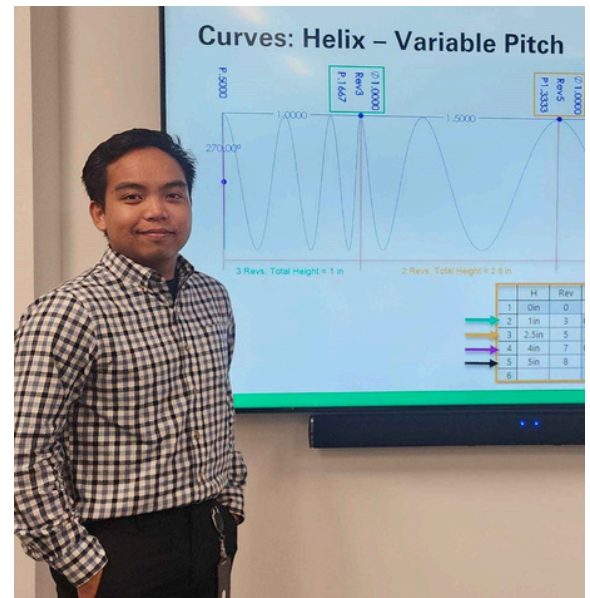
custom name or message. Don't pay \$60 or more online or at your local crafts fair - support T-Tech instead. At only \$25 each, why not buy two? Contact one of our T-Tech students, Mr. H, or scan the QR code to order!



Custom Wood Signs For Sale

Alumni Spotlight

This quarter, we highlight John (JP) Fernando, T-Tech class of 2017. While at Tustin High, JP eagerly took to all of our tech challenges even building a huge wooden catapult his freshman year when a little one would have sufficed. He really hit his stride when we began 3D modeling with SolidWorks and quickly obtained his CSWA certification. Shortly after graduating from THS, John leveraged his CAD skills and found a job at an engineering prototyping firm specializing in 3D printing. Since then he has worked across a range of industries, including medical devices, automotive manufacturing, space exploration, and more. Today, JP is a CAD specialist who leads training sessions to teach users about proper CAD standards and design philosophy. He holds multiple CAD certifications including the rare CSWE (Certified SolidWorks Expert), a feat accomplished by only 1% of SolidWorks users. Way to go John - and go Tillers!



John Fernando, CAD Specialist at Terumo Neuro

2025 Summer Internship Program

Remember! The deadline to submit applications for the TUSD Career Pathway Internship is Friday, 2/28. Do not miss the opportunity to apply for this unique, life-changing program. Google "TUSD CPI" or contact Mr. Hernandez for more information.

You can contact Mr. Hernandez directly at ehernandez@tustin.k12.ca.us

Upcoming Events

EV Challenge
Saturday, May 3rd 9am - 3pm
Saddleback College

T-Tech Showcase
Tuesday, May 20th at 6:00 pm in
the new T-Tech shop!