

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



WINTER 2022-2023
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A QUARTERLY NEWSLETTER CELEBRATING TUSTIN HIGH SCHOOL'S TECHNOLOGY & ENGINEERING PROGRAM

STAR INTERN

Every summer, Boeing hosts approximately 70 of Orange County's top high school juniors as part of their Summer Internship Program. For many, being on the Boeing campus all summer is a life-changing event with the type of experiences that can't be taught in the classroom. This year, our very own Tim Evans was selected as one of Boeing's top two high school interns of 2022! If his busy upcoming summer schedule allows it, Tim will have the opportunity to return to Boeing after graduation and help run their internship program as a Program Lead. Way to go Timothy!



Timothy Evans with Eric Eichinger, chemist and Summer Internship Program manager at Boeing Huntington Beach

SENIOR PROJECTS UPDATE

Our senior projects are coming together nicely! They include four electric vehicles, a pinball machine, three electric guitars, and an automated Nerf gun. Some are progressing faster than others, but none faster than our DriftTrike project team. Last week, the team was able to fire up their machine and test it on the tarmac. Although it still needs some adjustments, it worked! Next: the tedious and laborious task of working out the bugs and making it look good. The drift trike will be completely disassembled, cleaned, painted and put back together again before it sees the road again. We're looking forward to displaying it in May at our Senior Showcase. Join us!



From left to right: Neil Ong, Vincent Ngo, Matt Bach and Miles White

REAL WORLD DESIGN

Using our SolidWorks modeling program and 3D-printing, T-Tech sophomores are designing and building products meant to address a problem, a specific need or just the desire to build something cool. These include a custom wallet, magnetic shirt pocket, broom cleaner, crochet ring, makeup caddy, and more. Can you think of something you wish you could just design and print? Our students certainly can - and do! If you have a real-world challenge for our students, there is a good chance that we can make it happen.



Karla Cruz and her custom makeup caddy

ALUMNI SPOTLIGHT

This quarter, we highlight Melanie Acosta, T-Tech class of 2018. While at Tustin High, Melanie was involved in dance, T-Tech, and theatre arts. She was selected as a Boeing Intern her Junior year and was on the Lemelson MIT InvenTeam that got to travel to Boston, Mass. and present their gum removal machine invention. While in college, she interned for aerospace company Hydraflow, and worked retail at Nordstrom, all while carrying a full academic load. After a year at Chapman University, she transferred to Cal State Long Beach to pursue a degree in Mechanical Engineering and graduated in May of 2022. Shortly after, she began working as a Project Engineer at Barksdale, a global industrial products company where she helps to develop products for the automotive industry. Way to go Melanie, you make us all proud!



Melanie Acosta, Project Engineer

Upcoming Events

Re-scheduled T-Tech Parent Booster meeting: **Monday February 6th, 6:00 pm** in the T-Tech shop.
Summer internship applications for Juniors: February 1st - 16th.

Contact Mr. Hernandez with any questions at ehernandez@tustin.k12.ca.us