

Fu-Yao (Jefferson) Yu

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Education	The University of Texas at Austin (UT Austin) Austin, TX Bachelor of Science in Electrical Engineering Honors Program Minor in Business Expected May 2025 Relevant Coursework: Electronics, Computing, Multivariable Calculus Management, Accounting
	Lawrence E Elkins High School, Fort Bend ISD Engineering Academy Missouri City, TX Valedictorian in class of 633; GPA: 4.0, SAT: 1580, ACT: 36 Jun 2021 National Merit Scholar; Two-time Winner of the Texas Inventathon
Work Experience	QED Energy Associates Houston, TX Summer Intern with Focus in Data Science Jun 2020 - Led a project over analysis of oil & gas production in the Gulf Coast Region with 4 fellow interns. - Compiled data from 4 databases and created visualizations using Excel and Python Matplotlib. - Presented findings about trends in horizontal drilling technology.
	Applied Automation and Controls, Inc. (AAAC) Houston, TX Summer Intern with Focus in Mechanical Engineering Jul 2019 - Created digital models of parts using Autodesk Inventor to fit client constraints. - Manufactured parts using CNC machinery and tested part compatibility with other components.
	Private Math and Science Tutor Sugar Land, TX - Taught intermediate-level contest math and high school (AP) calculus, physics. Aug 2017 – Aug 2021
	Elkins High School TMSCA Math Contest Missouri City, TX Lead Tournament Organizer Dec 2019 – Jan 2020 - Planned from scratch and coordinated a math contest with 500+ contestants and 200+ volunteers. - Digitized contest by programming a web-based application (HTML/JavaScript/CSS) to automate registration, grading, and score tabulation tasks. Digitalization improved time efficiency by 300%. - Raised over \$9,000 in revenue for our school and community math programs.
Leadership & Project Experience	Fort Bend ISD Engineering Academy Missouri City, TX Student Body President / Director of Activities / Member Aug 2018 – Jun 2021 - Hosted field trips, seminars, socials, etc. to help students discover their passion for engineering. - Increased student engagement and attendance by 550%. Increased program enrollment by 72%.
	Anne Sullivan Elementary Math Club Sugar Land, TX Club Founder and Lead Coach Aug 2016 – Jun 2021 - Helped young students unlock their passions for math. Met for classes twice a week. - Programmed a practice problem generation website to increase accessibility of study materials. - Earned the title of 2018 Mathleague.org National Champion Team.
	Society of Asian Scientists and Engineers, Member Aug 2021 – Present Taiwanese-American Students Association, Member Aug 2021 – Present High School Math and Science Club, President and Team Captain Apr 2018 – Jun 2021 UIL State Mathematics Competition, Second Place May 2021 American Mathematics Competitions (AMC10/12), International Honor Roll Jan 2018 – Feb 2020 President's Volunteer Service Award Jun 2020
Skills	Programming: Experienced in Java, Python, JavaScript, HTML/CSS. Proficient in C++. Software: Microsoft Office, AutoCAD, Autodesk Inventor, Adobe Photoshop, Adobe Premiere. Languages: English (fluent), Mandarin (fluent), Spanish (intermediate) Interests: Piano, Typing (140wpm)