Noah **Tanner**

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Education:

California Polytechnic State University, San Luis Obispo
Bachelor of Science in **Mechanical Engineering**, **Mechatronics** *September 2019 - Present*
Cumulative GPA: **3.43**
Deans List (3x): maintained a 3.5+ GPA for the overall quarter for the past three quarters

Work Experience:

Model S and X BIW Controls Intern, **Tesla** *September 2022– Current*
-Manage multiple Kuka robots for subassemblies of the car body
-Automate process sheet updating using Python
-Use Catia to design and implement jigs and pressure sensor setups to solve issues within the assembly line

HVAC Intern, **BCE Engineers** *June 2022 – September 2022*
-Performed HVAC Load calculations and analysis on large scale building complexes
-Edited and improved CAD templates and company tools in AutoCAD
-Routed ducts and plumbing for large buildings in Revit

Skills:

Matlab, 3D CAD modeling (Catia, SolidWorks, Fusion 360), FEA Analysis, Python, html, CSS, JavaScript, 3D printing (FDM, SLA), Adobe Creative Cloud, Microsoft Office, Soldering, Welding, Blender 3D

Activities/Projects:

Society for the Advancement of Material & Process Engineering Club, President *August 2022 - Present*
-Work in tandem with the Experimental Motorsports club in designing a senior project
-Assist Senior project students in materials testing in the school composites lab
-Organized and received a materials donation from General Atomics for Fall 2022

2011 Kawasaki KX250F Motocross Bike *January 2021- Present*
-Demonstrated learn by doing by rebuilding the fork, rebuilding the engine, and reviving a project bike
-Continually modified and improved the bikes build for endure races and track days
-Currently designing a custom kickstand, brake levers, and foot pegs to machine at my school's shop

Pacer Digital, CEO *November 2017 – Present*
-Demonstrate learn by doing by designing, sewing, manufacturing, and hand screen printing clothing
-Profited $32,000 over a time span of 2 years under a legitimate business license
-Organized four in person pop up shops hosting over 150 people at each one

Digital Pulse Width Modulator Controlled DC Motor *February 2022*
-Constructed the controller primarily using a breadboard, Boolean comparators, and free running counters
-Confirmed the legitimacy of the circuit using an oscilloscope and a multimeter

Extracurriculars:

-Member of American Society of Mechanical Engineers
-Cal Poly Composites Club team member
-Cal Poly Hyperloop Club Member

Relevant Coursework:

Calculus series, Linear Analysis, Physics Series, Engineering Statics, Engineering Dynamics, Technical Writing for Engineers, Mechanics of Materials, Programming for Engineering Students, Philosophy of Design, Fluid Mechanics I and II, Thermodynamics I and II, Design for Strength and Stiffness, Mechanical Systems Design, Electric Circuit Theory, Electronics, Mechanical Vibrations, System Dynamics, Heat Transfer