

JONATHAN PEEK, Mech. Engineering Class of 2027

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PROFESSIONAL EXPERIENCE

Velez-Cuervo Lab (Dec. 2024 - Current) - Undergraduate Researcher - Irvine, CA

- Specialized research in applications of electromagnetic phenomena
- Designed and fabricated 3D-printed frame and circuitry for MHD based quadcopter for surface-level saline propulsion
- Developed and tested a functional radial MHD thruster prototype, achieving reduced weight over prior designs
- Contributed to technical literature review and lab procedure documentation

FrontierCE (Jun. 2024 - Sep. 2024) - Mechanical Engineering Intern - Redding, CA

- Conducted site and client visits, energy calculations, and plan drafting design proposals
- Successfully drafted and delivered complete, up-to-code project plans for hospitals, schools, and restaurants.
- Collaborated with company departments to ensure clients had deliverables on deadline.

New West Medical (Mar. 2023 - Sep. 2023) - Administrative Assistant - Redding, CA

- Managed prescription workflows, coordinated with doctors' offices, and ensured timely processing of CMNs and renewals for hundreds of patients weekly
 - Documented medical device shipment
 - Led a successful reorganization of patient records, improving accessibility and office efficiency
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PROJECT-BASED EXPERIENCE

Compressed Gas Car:

- Control systems lead on compressed gas car project. Personally constructed pneumatic system, electrical system, and controls framework for embedded software.
- Designed one-way bearing drive train system

ZotBotics MPCNC:

- Member of team to build a Mostly Printed CNC Router (MPCNC), constructed and soldered 3D printed material with electronics.
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SKILLS AND ACADEMICS

GPA: 3.6	Solidworks	MATLAB	React.js	Dynamics
Campus Honors	Revit	Simulink	Structure Mechanics	Vibrations
Collegium	AutoCAD	Arduino	Fluid Mechanics	Circuits

REFERENCES

Ben Abrahamsen, PE, FrontierCE

Tony Lewis, New West Medical, Owner