Parinaz Sotoudeh Zanjani

Parinazsotoudeh17@gmail.com | Parinazsotoudeh.com

SKILLS

- **CAD:** SolidWorks, Autodesk Inventor, Onshape
- **Analysis:** SolidWorks FEA
- **Machining:** CNC (Haas), manual
- **CAM:** FeatureCAM Ultimate 2027
- **Prototyping:** 3D printing (FDM), Arduino
- **Drawings:** technical drawings, GD&T
- **Software:** Excel, Word, Google Workspace, Copilot
- **Languages:** English, Persian (bilingual)

EXPERIENCE

VinWizard - Engineer Consultant **June 2026 - Present**

- Assembled complete products by hand, from the smallest individual components through final assembly
- Worked with the company CEO and engineer on design-for-assembly changes to products and the assembly process
- Independently tracked component inventory to keep assembly supplied

Santa Rosa Junior College Baja SAE Team - Vehicle Dynamics Manager, then Manufacturing **August 2025 - Present**

- Led suspension and vehicle dynamics development for a newly formed Baja SAE team
- Developed suspension geometry in SolidWorks and prototyped components with FDM 3D printing
- Designed the first revisions of the wheel knuckle with another team member
- Compared front suspension configurations on performance, simplicity, and manufacturability
- Machined practice parts with the manufacturing team: a bottle opener in 6061 aluminum, then in 303 stainless

City of Cotati - Engineering Internship **June 2025 - August 2025**

- Compiled an Excel database documenting curb deficiencies to support maintenance and accessibility planning
- Organized and standardized the city's master engineering drawing files, both digital and physical archives

Novato Sanitary District - Engineering Internship **July 2024 - August 2024**

- Accompanied civil engineers on job sites to learn how municipal sewer systems are designed, mapped, and maintained
- Used AutoCAD, Google Earth, and GIS to update the district's sewer system map and entered infrastructure data in Excel

PROJECTS

CNC Machined Parts, Santa Rosa Junior College **February - October 2026**

- Programmed and machined a cover (Feb 2026), desk clock (Apr 2026), and fidget cube (Oct 2026) on Haas CNC mills
- Wrote the G-code by hand, without CAM, for an aluminum fidget cube with a different shape cut into each face
- Designed a desk clock on my own, inspired by Persian art: machined aluminum body, LED lighting, engraved designs

Robotic Arm (solo project, in progress) **October 2026 - Present**

- Goal: a 4-DOF Arduino arm with a gripper that places a 75 g object within 10 mm, 20 times in a row
- Done: scope, success criteria, and BOM; ran several servos through a PCA9685 board; now load-testing servos
- Next (by Jan 2027): torque calculations, SolidWorks CAD with FEA, machined aluminum parts, repeatability tests

EDUCATION

Santa Rosa Junior College - Mechanical Engineering, second year **August 2025 - Present**

- Associate degrees in Mechanical Engineering and Advanced Manufacturing Technology in progress; transfer in fall 2028
- Certificate of Achievement, Advanced Manufacturing Technology: CNC Machining I (May 2026)
- Coursework: Calculus III, Differential Equations, Engineering Graphics & Design, General Chemistry, CNC Machining