

Imanol Gonzalez Toledo

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EDUCATION

The University of Texas at Arlington – College of Engineering

Bachelor of Science in Mechanical Engineering (GPA: 3.4/4.0)

Tarrant County College

Associate of Applied Science; Pre-Engineering (GPA: 3.7/4.0)

Arlington, TX

Aug 2023 – May 2026

Fort Worth, TX

Aug 2021 – May 2023

PROJECTS

Senior Design Capstone – Autogyro

Aug 2025 – Present

Mechanical CAD Specialist

- Developed detailed CAD models of autogyro components including canopy, fuselage, and airfoil geometries using SolidWorks.
- Achieved a 32% reduction in total component weight through optimized print settings and material selection.
- Enhanced report writing and public speaking skills by clearly communicating project objectives, methods, and results.

Manufacturing – Heavy Duty Tow Bar

Jan 2025 – May 2025

Mechanical Design Engineer

- Designed a complete heavy duty tow bar assembly intended for military vehicle applications, with emphasis on structural integrity, load requirements, and assembly feasibility.
- Created a manufacturing and assembly plan, including part sequencing and fabrication considerations.
- Developed a cost analysis chart to evaluate production and manufacturing expenses.

Mechatronics – Ball Platform Balancer

Aug 2024 – Nov 2024

Mechatronics Design & Controls

- Designed a servo actuated balancing platform in SolidWorks using two servos and a Raspberry Pi Pico to actively control platform orientation
- Co-developed real time control code to maintain platform stability using continuous sensor feedback and real time servo adjustments.
- Diagnosed and resolved wiring and hardware integration issues, improving system reliability.

TECHNICAL SKILLS

Software

- SolidWorks (3D Modeling & Assemblies)
- ANSYS Mechanical (FEA and Structural Analysis)
- Microsoft Excel, Word, PowerPoint (Academic and Technical use)
- Bambu Studio

Manufacturing & Prototyping

- 3D Printing
- Design for Manufacturing (DFM)
- Print parameter optimization (infill, layer height, support)

Programming

- C++ (Basic Procedural Programming)
- MATLAB (Basic Programming and Analysis)

Languages

- English (Preferred)
- Spanish

ASSOCIATIONS

American Society of Mechanical Engineers (ASME)

- Attend regular meetings and professional events to engage with industry topics and network with peers.