

Edwin Navarro

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SUMMARY

Mechanical engineering student pursuing product development work for filtration and fluid system applications. Academic projects cover **Autodesk Inventor**, AutoCAD, **three dimensional CAD**, **engineering drawings**, GD&T, **bills of materials**, prototype planning, and design validation. Built component, subassembly, and final assembly documentation under faculty supervision, then connected design decisions with manufacturing feedback and inspection findings. Created controlled project packages, revision records, test worksheets, and product support dashboards using Microsoft Excel and Power BI. Practiced technical communication through design reviews, presentations, customer inquiry responses, and team problem solving. Coursework and project work provide a practical base for mechanical and electromechanical development, engineering change workflows, and manufacturing documentation. Ready to contribute careful drafting, clear records, and collaborative follow through in a product development setting.

EDUCATION

Bachelor's Degree in Mechanical Engineering

2027

University of Toledo GPA: 4.0

Toledo, OH

Coursework: Product Development, Mechanical Design, Manufacturing Processes, Engineering Materials, Fluid Systems

TECHNICAL SKILLS

- **CAD Software:** Autodesk Inventor, AutoCAD, three dimensional CAD
- **Engineering Documentation:** Engineering drawings, specifications, assembly drawings
- **Geometric Dimensioning:** GD&T, dimensional inspection, drafting practices
- **Product Structure:** Bills of materials, component identifiers, assembly hierarchy
- **Change Management:** ECR, ECO, Enovia concepts
- **Prototype Development:** Prototype build planning, fabrication sequence, assembly instructions
- **Design Validation:** Test planning, fit checks, acceptance criteria
- **Data Reporting:** Microsoft Power BI, dashboards, data models
- **Office Applications:** Microsoft Excel, Microsoft PowerPoint, Microsoft Office
- **Mechanical Systems:** Hydraulic systems, lubrication systems, fuel systems
- **Electromechanical Design:** Actuators, subsystems, component interfaces
- **Manufacturing Support:** Machining, tooling access, manufacturing reviews

SKILLS

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|------------------------|----------------------|-----------------------------|-------------------------------|
| • Product development | • GD&T | • Prototype planning | • Manufacturing documentation |
| • Autodesk Inventor | • Bills of materials | • Design validation | • Technical communication |
| • AutoCAD | • ECR workflows | • Mechanical design | • Team collaboration |
| • Engineering drawings | • ECO workflows | • Electromechanical systems | |

EXPERIENCE

Capstone Project, Filtration Housing Product Development

January 2026 - Present

University of Toledo

Toledo, OH

Develops a compact hydraulic filtration housing under faculty supervision, supporting product definition, CAD documentation, prototype planning, design validation, and revision control.

- Modeled a hydraulic filtration housing in **Autodesk Inventor** for component, assembly, and interface documentation
- Applied **GD&T** at critical interfaces, checking dimensions against mating parts and prototype constraints
- Maintained a bill of materials with quantities, materials, revisions, and component identifiers
- Created a prototype build plan covering fabrication sequence, inspection points, and assembly steps
- Drafted a validation test plan for fit, pressure assumptions, flow integrity, and inspection criteria
- Logged design changes with affected files, approval status, rationale, and released revision

Student Lab, Mechanical Design and Manufacturing

August 2025 - December 2025

University of Toledo

Toledo, OH

Produced manufacturable drawings for machined components and small assemblies, connecting drafting practice, dimensional inspection, prototype testing, and manufacturing review.

- Produced **Autodesk Inventor** and **AutoCAD** drawings from laboratory requirements for machined components
- Applied GD&T callouts, then compared completed parts with documented dimensional requirements
- Built **bills of materials** and checked part numbers, quantities, materials, and drawing references
- Revised designs after tooling access, tolerance, and assembly concerns surfaced during **manufacturing** reviews
- Created an electromechanical actuator test worksheet with setup, observations, and acceptance criteria
- Presented design decisions with **Microsoft PowerPoint** and answered technical questions using drawing references

Course Project, Engineering Data and Product Support

January 2025 - May 2025

University of Toledo

Toledo, OH

Organized simulated product support records and translated engineering information into dashboards, customer responses, revision workflows, and traceable team presentations.

- Organized product support records covering drawing revisions, components, tests, and inquiry categories
- Built a **Microsoft Power BI** dashboard for design questions, revisions, observations, and inquiry themes
- Used **Microsoft Excel** to validate fields and reconcile duplicate component identifiers
- Drafted responses to simulated customer questions using specifications and drawing references
- Mapped an Engineering Change Request workflow through review, documentation update, and Engineering Change Order release
- Presented dashboard findings and traceability improvements during a team engineering review

PROJECTS

Fluid System Validation Study 📅 2026

Applied mechanical design principles to a filtration housing study, linking flow path assumptions, fit checks, inspection criteria, and prototype validation planning.

Electromechanical Actuator Test Plan 📅 2025

Created a practical test worksheet for an actuator assignment, capturing setup steps, observations, acceptance criteria, and traceable results.

LEADERSHIP & AWARDS

- Dean's List, University of Toledo, 2025 to 2026
- College of Engineering Design Showcase Finalist, 2026
- Undergraduate Project Achievement Award, 2025

CERTIFICATIONS

- Autodesk Inventor Essential Training 📅 2026
- Microsoft Learn: Get Started Building with Power BI 📅 2026

PROFESSIONAL AFFILIATIONS

- American Society of Mechanical Engineers Student Section, Project Team Member, 2025 to 2026
- Engineering Peer Design Review Group, Student Facilitator, 2026
- Campus Makerspace Volunteer, 2025 to 2026

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST