

# Henry Papesh

713-503-2518 | hpapesh@tamu.edu | College Station, TX

<https://www.linkedin.com/in/henry-p/>

## PROFESSIONAL SUMMARY

Mechanical Engineer with extensive coding, system, and control systems modelling experience. Well-developed collaboration skills and proficient in oral and written communication.

## SKILLS

MATLAB | Simulink | Python | SolidWorks | AutoCAD | Autodesk Revit | LabVIEW | Tableau Software  
Finite Element Analysis | JMP Statistical Software | Scanning Electron Microscopy

## EDUCATION

### **Master of Science Degree, Mechanical Engineering** **2024**

Texas A&M University, College Station, TX

- Research Focus: Practical testing of coatings used within mechanical systems

### **Bachelor of Science Degree, Mechanical Engineering** **2022**

Texas A&M University, College Station, TX

- Honors: Magna Cum Laude
- Minor in Mathematics

## EXPERIENCE

### **Graduate Assistant – Research** **August 2022 - Current**

**Texas A&M University, College Station, TX**

- Research Advisor: Dr. Ali Erdemir
- Analyzed material coatings used in heavy-duty mechanical systems
- Worked to design energy-efficient, long-lasting, and economic lubricants for use in heavy-duty applications

## CERTIFICATIONS

- **Engineer-in-Training**, Texas Board of Professional Engineers and Land Surveyors – 2022
- **Python Essential Training**, LinkedIn Learning – 2022
- **Occupational Skills Achievement Certificate**, Texas State Technical College – 2021
  - Certificate Earned: Architectural Design and Engineering
- **Excel: Introduction to Macros and VBA**, LinkedIn Learning – 2021

## Academic Projects

- Detailed design of a drone-based medical response vehicle from concept initiation to testing and installation. Primarily used to support pharmacies and hospitals by transporting time-sensitive medications to users efficiently. Modelled and analyzed three-dimensional components using SolidWorks, resulting in detailed drawings referenced by Production Engineers to construct components efficiently and accurately. Consulted with subject matter experts in bioinspired design and drone aircraft control.
- Design of an ergonomic cup holder from brainstorming to fabrication and testing. Primarily geared towards aiding elderly or otherwise ergonomically challenged consumers in performing everyday tasks, specifically, being able to comfortably and safely use a standard drink mug.

Performed consumer research into how best to serve the target consumers in conducting everyday tasks safely and independently, while also making the product accessible to users with and without advanced technical skills.