

MEC 427 Advanced Sensors and Actuators Challenges 1-5

Date & Time

- **Report Date:** 11-01-2025
 - **Time Block:** 10-27 - 11-01
 - **Time Spent This Session:** 2 hours / minutes
 - **Cumulative Time on Project:** 14 hours / 30 minutes
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Project Overview

- **Project Title:** Challenge 4 - Development Plans for Advanced Sensors and Actuators
 - **Project Objective:** Create Initial Development Plans
 - **Current Phase:** Sketching Phase
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Task / Activity Details

- **Module / Subsystem:** Development Plans
 - **Specific Task or Activity:**
 - **Time Spent on This Task:** 2 hours / minutes
 - **% of Total Time:** 100%
 - **Resources Used:**
 - **Hardware:**
 - **Software:**
 - **Tools:** Grok AI, Internet Research
 - **Documentation:** Concept sketches for actuator
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Progress Tracking

- **Task/Module Completion Status:** 50% complete
 - **Project Completion Status:** 15% complete
 - **Milestones Reached:**
 - **Blockers or Issues:** Several internet services were down. Stopped by need of dentist appointment.
 - **Next Steps / Planned Actions:** Complete development plans and begin prototyping actuator designs.
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Results & Deliverables

- **What Was Achieved:**
- **Artifacts Created:** Concept sketches for actuator

- **Validation / Testing Outcomes:**
 - **Changes Made to Design or Approach:**
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Narrative & Observations

Use this section for detailed descriptions, reflections, and context. Include technical notes, emotional observations, and rationale for decisions.

- **Narrative Summary:** AWS and other internet services were down for much of the week, along with my sudden tooth pain that required a dentist visit. I was able to make some progress on the development plans. Next week I will aim to make up for lost time. 12 hours in lab work next week.
 - **Technical Notes:**
 - **Lessons Learned / Insights:**
 - **Emotional/Workflow Reflections (optional):**
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