

Undersea Technology Apprentice Program M-Th, 0800-1300 Summer 2023
Session 1 - July 08, 2024 through July 25, 2024

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| Week | Date | Topics | Reference |
|------|------|---|-------------------------|
| 1 | 7/29 | Introduction: SeaPerch, ROVs and Raspberry Pi (no Slurpees) | Lecture/SeaPerch Manual |
| | 7/30 | Physics of Water (fresh and salt) | Outdoor Test Tanks |
| | 7/31 | Engineering Design/Variable Speed Drive/Soldering | Lecture/UTAP Manual |
| | 8/1 | Finish Controller/Debugging/Cyber security/sensors | Lecture |
| 2 | 8/5 | Intro to Linux and Python programming | Lecture |
| | 8/6 | Mission Briefing and testing | Test Tank |
| | 8/7 | Modifications/Programming/Practice/Serial Communications | Test Tank /Lecture |
| | 8/8 | Evaluate Vehicle (full mock-up)/Prepare Engineering Documentation | Test Tank |
| 3 | 8/12 | Practice/Modifications | Test Tanks |
| | 8/13 | Practice Run/Full Mock-Up | Test Tanks |
| | 8/14 | MINOR Modifications/Submit Engineering Reports/Competition | Salt Tank |
| | 8/15 | Course/mission debrief/Competition results | Group discussion |

Participate, be helpful, be considerate, and be tolerant of others opinions ... or we'll give your stipend to your team members!

Apprenticeship Content:

UTAP: Physics, mathematics, engineering, electronics, circuit assembly, soldering, programming, remote sensing, serial communications, cyber security, mechanical design, propulsion, interpreting technical documentation, budgetary constraints, teamwork, time management, technical writing.