

Undersea Technology Apprentice Program M-Th, 0800-1300 Summer 2023
Session 1 - July 10, 2023 through July 27, 2023

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Week	Date	Topics	Reference
1	7/10	Introduction: SeaPerch, ROVs and Raspberry Pi (no Slurpees)	Lecture/SeaPerch Manual
	7/11	Physics of Water (fresh and salt)	Outdoor Test Tanks
	7/12	Engineering Design/Variable Speed Drive/Soldering	Lecture/UTAP Manual
	7/13	Finish Controller/Debugging/Cyber security/sensors	Lecture
2	7/17	Intro to Linux and Python programming	Lecture
	7/18	Mission Briefing and testing	Test Tank
	7/19	Modifications/Programming/Practice	Test Tank
	7/20	Evaluate Vehicle (full mock-up)/Prepare Engineering Documentation	Test Tank
3	7/24	Practice/Modifications	Test Tanks
	7/25	Practice Run/Full Mock-Up	Test Tanks
	7/26	MINOR Modifications/Submit Engineering Reports/Competition	Salt Tank
	7/27	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.