

Timothy S. Leishman

EDUCATION

May 2019	Idaho State University	BAS - Robotics Engineering Technology
May 2002	Idaho State University	AAS - Electronics Systems Technology
May 2002	Idaho State University	ATC - Laser / Electro-Optics
APR 1996	United States Air Force	ATC - Intrusion Detections Systems
APR 1996	United States Air Force	ATC - Video & Broadcast Systems
APR 1996	United States Air Force	ATC - Electronic Principles

ACADEMIC EXPERIENCE

Idaho State University, College of Technology Robotics and Communications Systems Engineering Technology:

2023-Pres	Clinical Assistant Professor
2019-2023	Clinical Senior Instructor
2013-2019	Clinical Instructor

NON-ACADEMIC EXPERIENCE

2006-2013, Providence St Vincent Medical Center, Portland OR

- CBET (Certified Biomedical Equipment Technician, ICC Certified)
- Responsible for Respiratory, Emergency, EKG, Sterile Processing, and NICU departments

2002-2006, Tektronix Test & Measurement, Beaverton OR

- Field Service Tech III, specializing in video, optical, and oscilloscopes.
- Responsible for service depot and customer on-site repair, calibration, & data collection to NIST.

2000-2002, Idaho State University, Pocatello ID

- Tutor
- Electronic Systems & Core Theory. Applied: Algebra, Trigonometry, & Calculus

1995-1999, United States Air Force, Stateside & Overseas

- AFSC, 2E1X4 – Visual Imagery and Intrusion Detection Systems
- Managed television imagery, and intrusion detection system facilities

TEACHING CERTIFICATION (Idaho State Board of Education)

2017-2027	Advanced Occupational Specialist: Electronic Technology Postsecondary
2016-2017	Standard Occupational Specialist: Electronic Technology Postsecondary
2013-2016	Limited Occupational Specialist: Electronic Technology Postsecondary

Federal Communications Commission, FCC (FRN 0022083018)

2023-2032	Extra Class Accredited Volunteer Examiner, ARRL
2019-No Exp.	GMDSS Radio Maintainer's License, Element 9
2019-No Exp.	Ship Radar Endorsement, Element 8
2012-2032	Amateur Radio License, Extra Class, AE7YM
2001-No Exp.	General Radiotelephone Operator's License, Element 3
2001-No Exp.	Marine Radio Operator Permit, Element 1

PROFESSIONAL ORGANIZATIONS

- Career & Technical Educators of Idaho, CTEI
- The American Radio Relay League, Extra Class Accredited Volunteer Examiner

HONORS AND AWARDS

- 2018 Nominated for ISU Distinguished Teacher
- 2018 Ambassador Nominee for Dedication to CTE in Idaho
- 2017 Postsecondary Advanced Occupational Specialist Credential
- 2015 Idaho Technical Education, Exemplary Postsecondary Program Award

SERVICE – University Service Appointments

- 2022-2025 Faculty Grievance Standing Appeals Panel
- 2020-2023 Academic Standards Council (ASC)
- 2020-2022 Strategic Planning Committee (SPC)
- 2020-2021 EAB, Faculty Alerts & Cases
- 2017-Current ISU Electronics Club Advisor

PUBLICATIONS AND PRESENTATIONS

2023, 2022, & 2019 - Ignite Their Future (ITF), 5-day ISU Summer Camp - developed & taught the advanced electronics course for High School students. “The Bread Board Power Supply & Arduino fundamentals”, “The Bread Board Power Supply & Power Supply fundamentals”, “The Useless Box, 555 Timers & Servo Control circuits”.

2023 - i-STEM (Idaho STEM Action Center), 4-day professional development conference - developed & co- taught with Tim Rossiter the “Electronic Circuits and Coding” course for Idaho High School Teachers.

2022-Current - Website Development: Tim.Leishman.xyz, Built a website to support and connect with secondary STEM educators and students. Currently I have over 30 web articles published.

2018 – ICTE Reach Summer Professional Development Conference Presenter. Presented on the “Bipolar Junction Transistor Amplifier” and Co-presented with Tim Rossiter on the Vex Robotics “The Claw Bot”.

PROFESSIONAL DEVELOPMENT

- 2016-2019 Idaho Project Leadership (VANHEMERT ACADEMY)
- 2016-2018 Idaho CTE Leadership Institute (Idaho Division of Career Technical Ed.)

Udemy (Online Courses)

- 2023 LaTeX for Professional Publications
- 2023 Mastering LaTeX – Academic Typesetting for Beginners
- 2021 GitHub Ultimate: Master Git and GitHub – Beginner to Expert
- 2021 The Ultimate LabVIEW 2020 Course
- 2021 Fusion 360 tutorial for CNC machinists
- 2020 Fusion 360 CAD/CAM for CNC routers
- 2020 Designing for 3D Printing with Fusion 360
- 2020 KiCad Like a Pro 2nd edition

Continuing Education & Work Force Training (Idaho State University)

- 2021 Introduction to Mastercam-Design and Toolpaths (30hrs)

Fusion 360 for Glowforge Users

- 2020 5-part video series taught by Jason Lichtman, an AutoDesk Fusion 360 Technical Specialist