**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

FCC Amateur Radio License, Technician, KF7LWP

1996 FCC Element 3

**PROFESSIONAL ORGANIZATIONS**

Idaho Emergency Management Association

**HONORS AND AWARDS**

2023 Leading Idaho Initiative grant $73,500 for video studio equipment upgrade

2017 ISU College of Technology, Daring Greatly Award

2017 ISU College of Technology, Outstanding achievement Award

2015 Idaho Division of Professional-Technical Education Exemplary Postsecondary Program Award

**SERVICE**

**Current Idaho State University Service Appointments**

* RCET advisory Committee Member
* Doug Pitman Scholarship Committee for RCET program
* Schweitzer Engineering Scholarship Committee
* GERC annual reporting for RCET 1372 for mathematics goal
* Consulting CEED projects, Development of the Braille Keypad project demonstration device.
* College of Technology, College Executive Committee alternate, Frequently standing in for Geran Call as he represents the Rank and Promotion Committee
* College of Technology, rank and promotion committee
  + Chair of the Technical Department R&P portfolio review committee
  + Assisting Geran Call with rank and promotion applicant guideline documentation, and checklist development.
* Project planning and collaboration on the ‘Corrective Wheelchair’ project with the Occupational Therapy, and Occupational Therapy Assistant programs.

**Service to the discipline**

* Continued project development with the Pocatello Police Department, both on the ‘Throw Phone’ project and possible future project opportunities.
* Continued discussion with multiple groups at INL on potential future project collaboration and student intern opportunities.

**PUBLICATIONS AND PRESENTATIONS**

* January 2023 Faculty In-service Presentation, *Teaching Effective Troubleshooting* Helping students to develop problem solving skills and the confidence to utilize them. Understanding the key steps in successful troubleshooting, and identifying how they fit in everyday situations.
* ‘Unmanned Aerial Systems, Maintenance and Safety Program Development’

Co-presenter; Charles McNeel, UAS Instructor, Idaho State University

February 8th 2017, Idaho Emergency Management Conference, Boise Idaho

**PROFESSIONAL DEVELOPMENT**

2022 Nuclear medicine training by Troy and Justin Curnutt. This training involved learning the medication types, radiation terminology and levels, and nuclear sensor calibration. Exposure to ISO-5 nuclear cleanroom air handling and sensing, particle detection, shielding materials and material handling methods. 40 hours

2022 Researching noise immune sensor development, 1-Wire serial Communications, and 3D time of flight (distance) sensors for the Assisted Wheelchair Project to provide better direction to the student teams. 20 Hours

2021 Idaho State University, INFO 1181 Informatics and Programming I

2019 Idaho State University, Introduction to Laboratory Simulation Software