**EDUCATION**

May 1997 Idaho State University AAS - Electronics Systems Technology

May 1997 Idaho State University ATC - Laser / Electro-Optics

**ACADEMIC EXPERIENCE**

Clinical Senior Instructor / Program Coordinator 1999-Present, Full Time

Idaho State University, College of Technology

Robotics and Communications Systems Engineering Technology

**NON-ACADEMIC EXPERIENCE**

**May 2017 – Present ARDDS. Pocatello, ID**

*Partner, Engineering Lead:* Develop circuitry, firmware, and mechanical components for automated dosing and measurement of radio pharmaceuticals. Overseeing a programming team for development of a graphical user interface, and calibration / troubleshooting machine control interface.

**August 2011 – August 2019 Remote Imaging Technology Inc. Las Vegas, NV**

*Instructor/Consultant:* Develop and implement onsite training courses in electronics, radio frequency, video systems, video editing, system troubleshooting, and test equipment operation.

**February 2006 – November 2006 Snake River Electronics, Pocatello ID**

*Printed Circuit Board Layout Engineer:* Electronic circuit modification, schematic development, and printed circuit board design for various recreational and maritime vehicle power and fluid control systems.

**November 1996 – August 1999 ATE International, Pocatello ID**

*Engineering Technician:* Repair, calibrate and perform preventative maintenance on integrated circuit test equipment. Troubleshoot engineering development and prototyping equipment, and debug pre-release engineering software.

**CERTIFICATIONS**

2023 State of Idaho, Postsecondary Advanced Occupational Specialist

2010 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