BRIAN WILEY

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## ELECTRONICS PRODUCTION, MAINTENANCE, REPAIR & QUALITY CONTROL

Accomplished Electronics professional with a solid background in electronics production, repair and quality control. Highly analytical with the ability to identify problem areas and deliver effective solutions that improve overall efficiency and productivity. Strong Leadership and managerial skills when training and empowering staff to perform at a high level of success. Served in the United States Air Force with an honorable discharge.

* Electronics Test Experience
* Warranty Review & Analysis
* Product Analysis
* Familiar with ESD Standards
* Team Leadership & Management
* Process & Procedure Improvement
* Soldiering Experience
* Field Service Experience
* Electronic Maintenance & Repair
* Wiring Low Power Electronics
* Proficient with Electronic Multimeters and Computers

**Computer Skills:** use of Microsoft, Apple, & Linux operating systems; Microsoft Office, SharePoint; WordPerfect; Adobe Acrobat & PageMaker; Pages; LibreOffice; QuatroPro; Stata; VirtualBox; Clonezilla; FreeCAD

# PROFESSIONAL EXPERIENCE

**Minitube US,** Verona, WI June 2019 - Present

## Equipment Services Technician

Build, test, troubleshoot, repair, and maintain PLC-based, pneumatic Semen Packaging Machines with schematics, computer systems, and electronic test equipment; address customer issues over the phone and travel on-site to install, maintain, and repair machines; receive and repair smaller devices from customers in-house via the RMA system; repair devices by replacing or repairing broken parts via soldering, splicing and other means; realign and recalibrate parts that are still good or recently repaired; help maintain inventory of parts for the repair, production, and servicing of packaging machines and related devices.

### *Key Achievements:*

* + Extend the life of 20-year-old software by installing it onto modern laptops with VirtualBox so that older packaging machines could continue to be programmed without requiring the use of obsolete computers.
  + Designed part to prevent the destruction of equipment due to operator error using FreeCAD; part saved assembly technicians the need to spend time creating an ad hoc part using scrap material when producing each new machine and made the part available for the updating/repair of existing machines.

**SONOPLOT,** Middleton, WI May 2017 – May 2018

## Electro-mechanical Assembly Technician

Built robotics systems and built and tested associated consumable electronics parts; tested and troubleshot low voltage control assemblies without schematics; produced glass capillaries; performed quality checks on robotic assemblies, electronics control assemblies and consumable parts; packaged and shipped completed parts and assemblies via post, keeping track of progress via company’s website.

### *Key Achievements:*

 Developed the method for quality controlling glass capillaries that enabled management to track variations in quality over time.

˜ *Continued* ˜

**BRUKER AXS,** Fitchburg, WI August 2011 – September 2016

## Electronics, Production, Repair, and Test Technician

Built and tested X-ray Crystallography detectors; used schematics and electronic test equipment to troubleshoot and repair x-ray crystallography detectors to the component level; wrote procedure for in-processing, repairing, and out-processing of equipment; added solutions to the Microsoft SharePoint knowledge database to help new, inexperienced technicians perform more effectively; conducted quality control on products to ensure they met company standards and warranty specifications; wrote procedure for testing process.

### *Key Achievements:*

* Identified a product that was prone to failure even when it passed manufacturing specifications; saved the company thousands of dollars in shipping and warranty costs.
* Discovered a product’s label was worded inaccurately increasing the potential for damage by customer; Corrected the label wording; eliminated unnecessary warranty returns
* Added scripts to unique computer test software that improved testing time by over 50%.
* Initiated the improvement of testing procedures to ensure the objectivity of the testing process

**UNIVERSITY OF WISCONSIN**, Madison, WI January 2000 – December 2009

## Lecturer, Teaching Assistant, Librarian, Webmaster

Taught graduate and undergraduate courses in urban and regional planning, geography, history, and political science. Developed lesson plans, syllabi, and exams; helped prepare a research monograph for publication; maintained library inventory and provided support to students and staff with research projects; redesigned and maintained department websites.

### *Key Achievement:*

 Increased Work Center efficiency by stream-lining travel reporting

**UNITED STATES AIR FORCE** January 1995 - December 1999

## Voice Systems Supervisor

Managed daily production activities of data collection operators responsible for collecting data with specialized computerized communication systems; coordinated work schedules to ensure positions were manned at full capacity; developed and conducted training programs to assure operators received the proper tools needed to perform their daily activities successfully.

**Television Systems Specialist** November 1990 - December 1994 Utilized schematics and electronic test equipment to troubleshoot and repair monitors, televisions, cameras, video and audio recorders, video switchers, and video editing equipment down to the component level. Inspected, maintained, and upgraded audio and video distribution systems and equipment in closed circuit and broadcast environments; monitored on-air broadcast equipment using video test equipment to ensure quality of broadcast signals.

### *Key Achievements:*

 Developed and maintained Microsoft Excel database to convert an outdated manual spare parts supply system to an efficient automated system; reorganized and systematically labeled over a million dollars in spare parts; prevented the unnecessary ordering of duplicate parts

# EDUCATION & TRAINING

**M.A., Southeast Asian Studies (minor in Political Science**), University of Wisconsin

**B.A., History (concentration in Asia),** University of Hawaii

**A.A.S., Communications Applications Technology**, Community College of the United States Air Force

**A.A.S., Electronic Systems Technology**, Community College of the United States Air Force

**A.A., Chinese language,** Monterey Peninsula College