

Albert Latham
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Education

- B.S. Computer Science, UW Madison, 2015-2020
- U.S. Army Ordnance, Munitions, and Electronics Maintenance School, 2009
- Associate of the Arts, Pierce College, Puyallup, WA, 2006-2008

Professional Experience

Associate Embedded Engineer - Extreme Engineering Solutions (X-ES), 2019-Present

- Create electronics testing procedures. I work with project managers and design teams to identify testing requirements. From these requirements I write new tests or configure existing tests to ensure electronics work before being shipped to customers.
- Write documentation for use by manufacturing technicians.
- Troubleshoot and fix test software scripts. My work results in squashed bugs, fixed spelling and grammar errors, and easier to understand documents.
- Update existing software test scripts and associated documentation to meet changing design or manufacturing requirements.
- Modify circuit boards as engineering changes or design changes require.

UAV Electrical Design, Assembly, and Maint. Tech. - Aggie Air, Utah State University, 2014-2015

- Coordinated with design teams to meet design and fabrication specifications for Unmanned Aerial Vehicle flight control system. Systems flew for two years with regular maintenance.
- Created assembly and maintenance documentation to accompany flight control systems which resulted in low friction hand-off to position successor.
- Assisted in fabrication of composite aircraft structures using vacuum pumped wet-layup methods. My attention to detail resulted in structures that were the same strength, but lighter than previous iterations of the design.
- Completed electrical assembly and troubleshooting of two scientific imaging systems. Resulted in one reference assembly, one flying assembly, and accompanying documentation for assembly and maintenance.

Electrical-Mechanical Tech. - U.S. Army, 2009-2013

- Performed maintenance, checks, and services on electrical-mechanical (missile) systems for customers.
- Installed, documented, tested, and maintained long range optical systems in combat vehicles.
- Created maintenance shop filing system for managing quarterly checks and maintenance of customer systems. Resulted in consistent scheduling and follow-up with customers.

Technical Skills

- *Shop skills:* lathe and mill operation, hand tools, metal fabrication, welding, wet composite layup
- *Programming:* Python, Java, git, linux, bash; numerical linear algebra, data structures
- *Design:* electronics test design/automation, mechanical design, wiring harness design
- *Electrical:* low voltage DC system design, troubleshooting

References

Sean Hilty – Manufacturing Test Manager, X-ES– shilty@xes-inc.com

Anthony Van Natter – Shop Foreman, Aggie Air – Ph. (435) 374-8285

Austin Jensen – Teams Lead, Aggie Air – Ph. (802) 633-0426