

Timothy D. Legg

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Education:

North Dakota State University, Fargo ND
Graduate Student, Industrial and Manufacturing Engineering, (1/2015-Present)

Iowa State University, Ames, IA
Bachelor of Science in Computer Engineering, Graduated December 2004

Employment History:

Genex Products, LLC (as 1/2 owner), Guin, AL (10/2013-Present)

- Moved facility to rural Alabama for affordable rent and lower taxes.
- Maintained quality production indistinguishable from product made in the former Illinois facility.

Cankdeska Cikana Community College, Fort Totten, ND (1/2011 - 12/2013)

- Pre-Engineering Instructor for the NSF funded Pre-Engineering Educational Collaborative (PEEC). I served my conscription to public service by introducing my students to the engineering world within this pipeline program for North Dakota State University.
- Worked for Nature program facilitating Sunday Academy activities. Evaluated proposed activities and aided in authoring and improving curriculum.
- North Dakota Career and Technical Education certificate as IT Instructor.
- Participated in professional development funded by the PEEC program at NDSU Fargo and Alverno College of Milwaukee.
- Used networks within American Indian Science & Engineering Society to found a student chapter at the campus. This organization became one of the most aggressive fundraisers at the college.

Jet Finishers, Elk Grove Village, IL (8/2005 - 12/2010)

- Assisting owners in introducing lean manufacturing.
- Created a SQL/PHP web-based material and labor tracking ERM system for calculating our cost centers for immediate feedback to sales quoting.
- Launched an internal wiki to help employees store data on vendors, processes and maintenance tasks.
- Co-designed the only EPA-compliant Zinc-Phosphate coating line in the Chicago metropolitan area.
- Brought a second production line into operation.
- Automated routine maintenance to lower maintenance expenses.

Genex Products (as consultant), Oak Park, IL (1/2006 - 12/2008)

- Assisted in stabilizing the manufacturing processes.
- Participated in developing product line and producing first products.

Ames Lab/Center for Non Destructive Evaluation (CNDE), Ames, IA (2004)

- Designed a Cockroft-Walton voltage multiplier to be used as a bias source in transducer research.
- Created C code to model the circuits before fabrication.

Skill and Competencies:

Industrial Skills

- Literate in NFPA documents regarding National Electric and Fire Codes.
- I enjoy learning skills outside my profession in order to better accomplish the project at hand.
- Completed electrical, water and pneumatic plumbing, welding, refrigeration systems work myself, to expedite the project.
- EPA licensed to service all refrigeration systems.

Electrical and Computer Engineering

- Familiar with RF signal generation, transmitter and receiver operation.
- I can design analog and digital circuits using modern software tools and solder working prototypes.
- Well versed in C, C++ and assembly and a number of high-level scripting languages and tools

Additional Skills

- FAA licensed private pilot with capacity for FAA Class 1 medical.
- FCC licensed Extra Class (All 4 FCC Elements) amateur radio license.

Volunteer Activities:

- Founder of CherokeeNewTestament.org. Transcribed the single largest document written in the Cherokee language to help people who live away from our homeland learn Cherokee by comparing English and Cherokee texts. I wrote my own Content Management System in C to manage corrections to the website. This website has been referenced within numerous academic papers.
- Member of EAA (Experimental Aircraft Association). I promote the idea of homegrown, cutting edge technologies implemented in handmade aircraft.
- AISES (American Indian Science and Engineering Society). Member since 1999, I have progressed through student, professional and academic membership levels. I inspire the youth to consider engineering fields as an option for their future. I continue with them as a mentor and a tutor throughout their collegiate career.