**Timothy D. Legg**

http://www.timothylegg.com

828-736-3078

**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.
* Providing IT consultation to **E-T-A Elektrotechnische Apparate GmbH** since November 2016.

**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.com. 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.