

LLOYD CALEB BREAZEALE

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OBJECTIVE

To research, design, and construct power electronic systems.

EXPERIENCE

Southwest Windpower, Flagstaff AZ, cumulative ~3.5 years between 1/99-8/07

Production Assembler / R&D Technician / Test Engineer – Assembled small wind generators. Assisted in product design including a reliable regulator. Designed and constructed numerous test machines such as circuit testers, electronic loads, and an automatic dynamic test station.

Novakinetics, Flagstaff AZ, 7/03-12/04

Technician – Manufactured composite aircraft body parts. Lead technician on an aircraft ballistic armor project. Team member in the design and construction of a solar solvent recycling machine.

Northern Power Systems, Waitsfield VT, 9/01-3/02

Electrical Technician – Supported development of a three-phase inverter. Tested auxiliary circuits and wired large power converters. Tested and documented performance of a 5 kW DC-DC converter. Production work included panel wiring of control systems.

EDUCATION

Northern Arizona University
BSEE w/Computer Engineering Emphasis
Graduation Date: May 2008
GPA: 3.41

Relevant Classes:
Microprocessors, Embedded Control,
Systems and Signals, Digital Signal Processing,
Circuits, Electromagnetics

Capstone Project:
Rotor excitation study for Arizona Public Service

Extra-Curricular:
Formula Lightning electric racecar team ('96-'97)

SKILLS

- novice analog & digital circuit design
- filter design
- feedback systems
- gate drive circuits
- hard-switched conversion techniques
- linear regulation
- magnetic elements
- embedded C
- Midrange PIC & 68K Assembly
- Matlab, Mathcad, & Excel
- Multisim 9
- wire-wrap prototyping
- novice PCB layout
- instruments
- NI DAQmx C Library
- mechanical tools