

PATRICK PRENDERGAST

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EDUCATION

BSEET, Western Washington University, *projected June 2005*

ABET Accredited EET Curriculum

3.24 GPA major, 3.02 GPA overall

WWU-Sigma Xi Research Grant Recipient, *Regenerative BLDC Motor Controller for an Electric Bike*

This research project is a three-phase BLDC PWM motor controller for an E-Bike that uses regenerative braking to charge the batteries. The controller can communicate over the CAN.

RELEVANT WORK EXPERIENCE

Outback Power Systems, Arlington, WA; *Summer 2004*

Internship: Outback Power Systems makes renewable energy and back-up power products for the harshest environments. Performed board level production testing and troubleshooting on the MX60 MPPT Charge Controller.

Williams Gas Pipeline Corporation-West, Battle Ground, WA; *Summer 2001*

Summer Signage Technician: Installed warning signs on the right of way of the natural gas pipeline using a pipe-locator and a company truck.

QUALIFICATIONS

- Experience testing and troubleshooting with test instruments including:
 - Oscilloscopes: Analog, Digital and Mixed Signal
 - Spectrum Analyzers
 - Function Generators
 - Programmable Loads
 - Power Supplies
 - Frequency Counters
 - Digital Multimeters

- Proficient in the following programming languages and platforms.

▪ C and Assembly	Embedded Systems	Motorola 68HC9(S)12
▪ ABEL-HDL	Digital Design	Xilinx 9500 CPLD
▪ C++	Windows	MS Visual Studio

- Experience with the following software packages:

▪ Eagle Schematics and Layout	▪ PSpice Schematics
▪ Visio	▪ Tina Simulator
▪ MathCad	▪ Microsoft Office
▪ CodeWright IDE	▪ Acrobat

MEMBERSHIPS

IEEE Institute of Electrical and Electronics Engineers, Student Member, 2003-2005

WWU-IEEE Western Washington University Electronics Club

References available upon request.