

David Pastl

Resume

Skills and Abilities

Electronics	PCB Design, Component Specification and Selection, SMT and PTH soldering, FPGAs, Microcontrollers
Programming	Matlab, Verilog HDL, C, C++, Assembly, \LaTeX
Mechanical	CAD Design, FEA (AutoCad, COMSOL, Elmer)
Computers	Linux, Mac OS X, Windows
Leadership	Telemetry Team leader of University of Saskatchewan's Space Design Team
Communications	Excellent writing and presentation skills

Relevant Experience

- Jan. 2013–Sept. 2013 **Electrical Engineer-in-Training**, *Environmental Instruments Canada Inc.*, Saskatoon, SK.
- Designed Circuit and PCB for direct reading dosimeter for uranium mining industry
 - Developed firmware and jointly developed bluetooth communications protocols with software design team
 - Performed troubleshooting and product repair
- May 2011–Dec. 2012 **Research Assistant**, *Department of Chemical and Biological Engineering, University of Saskatchewan*, Saskatoon, SK.
- Design and implementation of sensor for measurement of pneumatically conveyed particle flow parameters in agricultural systems with patent granted for design
 - Designed PCB and worked with industry to manufacture sensors
 - Design, development and testing of research equipment and apparatuses for colleagues

- May 2009–Aug. 2010 **Engineering Intern**, *Technical Services and Research, SaskPower*, Regina, SK.
- Design and construction of laboratory equipment such as 30A three phase supply and goniophotometer
 - Equipment procurement
 - Performed new product evaluations, including testing of new LED lighting

Interests

- Electronics
- Capacitive Discharge welder
 - 555 Based LED controller to simulate aircraft landing lights on RC plane
 - LED Ring Clock with integrated ATTiny85 Microcontroller and real time clock
- Outdoors
- Canoe trips to northern Saskatchewan
- Photography
- Film and Digital Photography including wet lab photo developing

Education

- 2013–present **M.Sc (Candidate)**, *University of Saskatchewan*, Saskatoon.
Electrical Engineering
- 2006–2012 **B.Sc**, *University of Saskatchewan*, Saskatoon.
Engineering Physics with Communication Option

Languages

- English **Highly Proficient**
French **Proficient**

References