

# Elliott C. Schmitt

22581 KIPLING ST ■ ST. CLAIR SHORES, MI 48080 ■ (586) 873-3014 ■ ESCHMITT586@HOTMAIL.COM

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## EDUCATION

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### **Master of Science in Mechanical Engineering**

University of Washington, Seattle, WA

Starting Fall 2007

### **Bachelor of Science in Mechanical Engineering**

### **Bachelor of Science in Physics**

### **Magna Cum Laude**

Lawrence Technological University, Southfield, MI

Received May 2007

**Overall GPA:** 3.71 (on 4.0 scale)

## WORK HISTORY

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### **Lawrence Technological University, Southfield, Michigan (05/07 – 08/07)**

*Solar Decathlon – Team ALOeTERRA, Technical Coordinator, Supervisor: P. Plowright*

Responsibilities: Hired and managed team of engineers to fulfill duties related to the design, installation, and testing of solar power systems, mechanical building systems, HVAC, electrical AC/DC power distribution, building performance and energy analysis model. Emphasis on sustainable building design and product life-cycle.

### **NextEnergy Center, Detroit, Michigan (02/07 – 05/07)**

*Project Support, Internship, Supervisor: D. Radomski*

Responsibilities: (1) Assisted in initiation of Clean School Bus Training Seminar (2) Assisted in coordinating efforts of Michigan Biofuels Station Program (3) Developed and conducted design of experiment for NCMS program with Millenium Cell ‘Hydrogen On Demand’ system (4) Developed and maintained database of active members of Wind Working Group (5) Assisted in activities related to the 21<sup>st</sup> Century Job Fund

### **Lawrence Technological University, Southfield, Michigan (08/05 – 12/06)**

*Hydrogen and Combustion Technology, Contract Engineer, Supervisor: A. Lutz*

Responsibilities: Computer modeling and data analysis for DTE Hydrogen Technology Park. Assisted in coordinating research efforts between engineers from Sandia National Laboratory, Lawrence Technological University, and DTE.

### **Michigan Department of Environmental Quality, Lansing, Michigan (05/06 – 8/06)**

*RETAP Internship, Engineer Internship, Supervisor: D. Copedge*

Responsibilities: Implemented pollution prevention strategies for manufacturing facility: (1) Assisted building owners in becoming LEED-EB Certified, (2) Reduced annual energy consumption and costs, (3) Reduced waste streams.

### **Sandia National Laboratory, Livermore, California (05/05 – 08/05)**

*Hydrogen and Combustion Technology, Engineering Intern, Supervisor: A. Lutz*

Responsibilities: Dynamic system modeling of distributed hydrogen generation system for DTE Hydrogen Technology Park using Simulink. Performed analysis of 50 kW PEM

hydrogen fuel cell system and alkaline electrolyzer. Developed real-time simulation for Power Park, including PV, fuel cells, electrolyzer, high-pressure H<sub>2</sub> storage system, chiller, and compressor.

**Lawrence Technological University**, Southfield, Michigan (10/04 – 05/05)

*10 kW Photovoltaic Project, Student Project Leader, Supervisor: Dr. R. Fletcher*

Responsibilities: Managed project team of 15 – 20 students. Coordinated with professionals to design, implement, and maintain 10 kW PV system, display kiosk, and DAQ website.

**Lear Corporation**, Southfield, Michigan (7/03 - 12/03)

*'Occusense TM' OCS Development Team, Engineering Co-op, Supervisor: C. Ricard*

Responsibilities: Product development for vehicle safety program. Performed live occupant testing, test set-up and tear down for occusense system, data acquisition and developed test reports.

## PERSONAL INFORMATION

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- **Published**: Andy Lutz, Carl Mas, Elliott Schmitt. “*Power Park System Simulation.*”, Sandia National Labs. 2006 DOE Hydrogen Program Annual Review. May 16, 2006.
- **Competitions**: *2007 Solar Decathlon* – Technical Coordinator (Lawrence Tech University): International competition sponsored by DOE and NREL; *2004 Midwest Undergraduate Private Engineering College (MUPEC) Design Contest* – 3<sup>rd</sup> place
- **Awarded**: *Egtvedt Fellowship* (2007 – 2008), *LTU Trustee Scholarship* (2002 – 2006), *Engineering Endowed Scholarship* (2003 – 2004), *Michigan Competitive Scholarship* (2003 – 2005), *LTU Alumni Scholarship* (2004 – 2005), *DTE Energy Scholarship* (2005 – 2007), *Outstanding Senior in Physics Award* (2006)
- **Computer Skills**: Word, Excel, PowerPoint, Matlab, Simulink, TRNSYS, Energy-10

## HONORS & MEMBERSHIPS

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- *Lambda Iota Tau* (LTU Honor Society)
- *Tau Beta Pi* (Engineering Honor Society)
- *Pi Tau Sigma* (Mechanical Engineering Honor Society)
- *Sigma Pi Sigma* (Physics Honor Society)
- LTU Alternative Energy Student Group
- LTU Chapter Society of Physics Students (President, 2005 – 2007)
- American Society of Mechanical Engineers student member

## REFERENCES

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Available upon request.