

## **Ethan Suttner**

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### Objective

**Applying my Engineering background to Technical or Operations Systems**

### Summary of Technical Skills

**Six Sigma Black Belt Certification, Lean Manufacturing; CAD Software: Pro/Engineer, Solidworks, Autodesk Inventor and Vault; GD&T; ANSYS; MATLAB, Labview, Java, VB.NET, SQL; Microsoft Office: Access, Word, PowerPoint, Excel, and Project; UNIX, SISO/MIMO Control Design, Manual Mill and Lathe Machining, Carbon Fiber Layup**

### Education

**Cornell University: College of Engineering – Ithaca, NY**

Masters of Engineering in Systems Engineering. Jan 2012. GPA: 3.81

B.S. Mechanical and Aerospace Engineering, Minor in Applied Mathematics

May 2011. GPA: 3.627

### Relevant Work Experience

**Transact Technologies Inc. – Ithaca, NY**

March 2012 – Present

*Manufacturing Engineer*

Designing and improving Operations processes by developing and maintaining VB.NET applications, applying Lean Manufacturing techniques, and writing test specifications and work instructions. Multiple International OEM visits to audit new product builds.

**Cornell High Energy Synchrotron Source – Ithaca, NY**

Nov. 2010 – August 2011

*Mechanical Engineering Research Assistant*

Helped design, assemble, and test a mechanical driver for an undulator in a team of engineers and physicists. Contributing author on a paper for a Magnetic Technology conference outlining the design and manufacture.

**Sunpower Inc. – Athens, Ohio**

July 2006 – Aug. 2006

*Engineering Summer Intern*

Helped conduct experiments on a Hot (Linear) Alternator Test Rig to determine efficacy in the context of Stirling Engine power generators.

### Research/Extracurricular Activities

**Cornell Department of Neurobiology and Behavior Lab**

Sept. 2011 – May 2012

Designing and running a series of cooperative game theoretic rowing ergometer tests to study conflict and cooperation incentives in groups

**Cornell Collegiate Cycling Program**

Feb. 2009 – August 2011

Club President. Helping to provide the experience of cycling/bike racing to the Cornell and Ithaca communities. Responsible for budget, travel, recruitment, clinics, and uniforms. Organized and hosted a cyclocross race in October 2010.

**Cornell Autonomous Systems Lab**

June 2010 – January 2011

Walking Hexapod Research. Programming (Python, MATLAB, C#) a Hexapod to perform complex tasks on a high level mission planning control framework.

**Cornell Biorobotics and Locomotion Lab**

June 2009 – September 2009

Bicycle Research. Working with one other student to develop a proof of concept for a constrained pedaling bicycle. Designed and manufactured mechanical and ergonomic components for the project.

**Cornell Formula SAE**

Feb. 2008 – March 2009

Volunteered with testing and preparing Formula-style racecar for international level competition in Michigan. Designed and implemented the steering system for the 2009 racecar. Extensive machining. 9 time World Champions.