

## Professional Experience

*Spring 2008-Present, & Summer 2006*      **Tuck School of Business – Hanover, New Hampshire**

In cooperation with the Department of Homeland Security & Tiversa Inc., researched the information security risks of Peer-to-Peer file sharing on the financial and healthcare sectors. Designed search experiments and statistically analyzed over 30,000 leaked documents discovered on p2p networks. Our results have been presented in front of the House Oversight Committee and covered in *The Wall Street Journal*. Co-authored two published papers “Why File Sharing Networks are Dangerous” – *Communications of the ACM* (February 2009) & “Data Hemorrhages in the Health Care Sector” - *Lecture Notes in Computer Science* (Date TBD). Also authored a forthcoming paper on web 2.0 and social networking risks to corporate security.

*Summer 2007*      **Sound Innovations Inc. (Military Manufacturer) – White River Junction, Vermont**

Identified potential licensees of the company's patented predictive noise-reduction technology and purchased their market leading aviation headsets. Adapted headsets to work with the Sound Innovations technology by creating custom electronics and control algorithms. Tested headset performance in simulated aviation environments and made recommendations to the company president based upon testing results and competitive market conditions.

*Summer 2005*      **WaveRX Inc. (Polaris Ventures Backed Startup)– Hanover, New Hampshire**

Designed, prototyped, and machined multiple FDA compliant waveguides for a therapeutic microwave heating medical device.

*Fall 2004*      **Global E Industries LTD – Cavendish, Vermont**

Assistant for a biofuels distributor. Work included marketing and business planning.

## Education

**Thayer School of Engineering at Dartmouth College, Hanover, NH**

*June 2008*      **Master of Engineering Management** - Major GPA: 3.72/4.0 (Estimated from HP/P/F Scale)

*June 2007*      **Bachelor of Engineering in Electromechanical Systems and Controls** - Major GPA: 3.88/4.0

**Dartmouth College, Hanover, NH**

*June 2006*      **Bachelor of Arts in Engineering Sciences modified with Economics** - Undergraduate GPA: 3.53/4.0

## Selected Course Work

**Engineering:** Power Electronics and Electrical Machines, Dynamics, Modern Control Theory, Distributed Systems and Fields, Thermodynamics, Control Theory, Solid Mechanics, Linear and Digital Circuits, Operations Research for complex industrial and public systems, Statistical Methods in Engineering, .

**Economics:** Microeconomics, Macroeconomics, Industrial Organization & Public Policy, and Game Theory.

**Business Management:** Topics in Manufacturing and Design, Corporate Finance, Optimization Methods, Intro. to Entrepreneurship, Entrepreneurship within Established Organizations, Operations Management, Corporate Communication, Leadership, Marketing, and Organizational Behavior.

## Selected Course Projects

**Engineering Design Methods:** In a team, designed, produced, and assembled an advanced power-train and charging control system for a series hybrid racecar, much like the upcoming Chevy Volt.

**Power Electronics:** In a team, designed and built a 10 kW DC-DC power converter for use in a hybrid vehicle.

**Thermodynamics:** Constructed a Stirling Engine which won the class awards for being the most efficient and powerful engine.

**Control Theory:** Designed a working drive controller for balancing an inverted pendulum mounted upon a small electric car.

**Intro. to Entrepreneurship:** Developed a green business model and pitch based upon the “up-cycling” of shipping waste.

## Skills, Tests, and Certifications

**Certifications:** Engineer-in-Training (Fundamentals of Engineering Exam), Six-Sigma Green Belt

**Productivity Software:** Word, Excel and Solver, PowerPoint, Intermediate Photoshop

**Programming:** Linear Programming Applications, Object Oriented Programming, HTML & CSS, Introductory Ruby on Rails

**Engineering Software:** AutoCad Mechanical Desktop (Certified), AutoCad Inventor, Pro Engineer, Matlab, Extend Simulation

**Statistical Software:** Stata, Minitab.