Andrew M. Wallace

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Education

Massachusetts Institute of Technology — ***Cambridge, MA***
Master of Science and Bachelor of Science in Mechanical Engineering, Concentration in Writing. Masters Thesis: "Piezoelectric Impact Centering." — September 2003

Experience

Aeromotions, Inc., VP of Engineering — ***Cambridge, MA***
March 2008-Present

Co-founded company to develop and sell computer controlled active car racing wings. Managed all aspects of business development, including strategic planning and execution, IP strategy, and directing daily operations. Developed all electronic and mechanical systems from concept to production. A focus on streamlining the supply side, through outsourcing and Design for Manufacturing, has led to a robust supply network. Aeromotions now has a global network of twenty distributors, growing sales, and a great reputation for high quality innovative products.

Tribotek, Inc., Manager, Manufacturing Equipment Design — ***Burlington, MA***
June 2003-March 2008

Co-invented and patented company's core technology. Invented and patented manufacturing techniques. Developed all aspects of a manufacturing process for an innovative power contact design, including process concepts, design, prototyping, troubleshooting, and short production runs. Managed three generations of manufacturing line development, including collaborating with outside automation companies, and managing an internal engineering team. Transferred labor intensive processes to China. Eliminated process steps, drove down cycle times, and drastically reduced scrap rates through a process of continuous improvement.

Timken, Intern — ***Canton, OH***
Designed and built a new piezoelectric impact positioning device for automated manufacturing. Involved controller design, electrical and mechanical design and prototyping. — June 2002-December 2002

Developed a low-cost wireless temperature sensor from concept to working prototype. — Summer 2001

Devised a retaining ring for a wear monitoring sensor package in railroad bearings. — Summer 2000

Independent Consulting — ***Boston, MA***
October 2000-December 2002

Delivered prototype control boards for a driving range golf ball placement system that provided a user interface and motor control. Designed and prototyped a mechanical shock sensing alarm clock with a PIC controller that could record and play back wakeup messages.

Electronic Design and Manufacture, Intern — ***Lynchburg, VA***
Designed and built a control board for a prototype Hamilton Beach coffee maker. — Summer 1999

Engineered circuit board testers, including electrical and mechanical design and construction. — Summer 1998

Research Science Institute, MIT Nuclear Reactor — ***Cambridge, MA***
Designed a neutron beam chopper for the MIT research reactor. — Summer 1997

Skills

Creative design, CNC and manual machining, SolidWorks, ProE Wildfire, LabView, circuit design, PCB construction, PIC programming, automation controller and robot programming

Interests

Power plane flying, sailplane flying, fishing, canoeing, cooking, SCUBA, bee keeping