

Matthew Liebsch

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- Summary:** Creative engineer and professional athlete who places high value on hard work, ethical values, interpersonal skills, and being a team player. Industrious with knowledge and experience ranging from concept through production.
- Education:** **BS, Electrical Engineering, 2006**
University of Minnesota, Minneapolis, MN
GPA: **3.2**
- Institute of Technology Dean's List Fall 2006
 - Student member of the IEEE
- Experience:** **CXC Team Vertical Limit** 07/06-Present
Professional Athlete
- Organize and conduct free "Get Your Nordic On!" clinics
 - Act as an ambassador to the sport and a role model for younger skiers
 - CXC Academy: athlete perspective, online coaching, training plans
 - 2009 American Birkebiener Champion
 - 2009 Bronze Medalist-US National Championships 10k Freestyle
 - Pre-Olympic World Cup Team Member
- Sauer-Danfoss, Plymouth MN** 09/06 – 12/09
SMT / Quality intern / Engineering technician
- Failure analysis support of production products including quality initiatives
 - Worked closely with both engineering and production
 - Experience with IC testing, Automated Inspection, Functional Testing, and Product Software
 - Troubleshoot failed products as well as quality/production test equipment
 - Successful upgrade of Manufacturing Defect Analyzer (from TR8 to TR10 Windows XP System)
- Honeywell International, Inc., Coon Rapids, MN** 05/06 – 08/06
Aerospace ISC intern
- Support production floor through engineering orders, pattern fault investigations and quality reports
 - Webmaster for Product Improvement Team
 - Notable contributions include diode investigation for pattern fault, advanced search filter for rejection log, EDC error investigation, tolerance analysis, and design error investigation for PWB's
- Computer Skills:**
- Software: ViewDraw, WaveStar, PSPICE, Power World, assembly for the Motorola HC12 microcontroller, Microsoft Office Suite
 - Languages: MatLab 7.01, Simulink, the Matlab controls toolbox, Mathematica
- Specialized Education:**
- Power Systems: Transmission Lines, Power System Analysis and Design, Power Electronics, Power System Planning and Operation
 - Digital Logic: Microcontrollers, Semiconductor Devices, State Space Control and Design, Introduction of Digital Logic
 - Analog Circuitry: Analog and Digital Electronic, Linear Control Systems, Circuits Laboratory, Signals and Systems