CHRIS BOLIN
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education

2011 - 2013   **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**   **CAMBRIDGE, MA**
Candidate for Master of Science in Computation for Design and Optimization, June 2013. GPA: 5.0/5.0.
Coursework: Statistical Learning and Data Mining, Optimization Methods, Numerical Simulation.
Thesis Topic: "Monte Carlo Uncertainty and Sensitivity Analysis for Life-Cycle Assessments."
Co-Founder and Secretary, MIT Film Club. Rohsenow Fellow. Health and Safety Office Representative.

2003 - 2007   **UNIVERSITY OF NEBRASKA**   **LINCOLN, NE**
Bachelor of Science in Engineering with Distinction. GPA: 3.9/4.0. Dean's List All Years.
Undergraduate Research Assistant in Computational Heat Transfer. Honor's Program Graduate.
Thesis Topic: "Optimization of Fuel Economy." Pi Tau Sigma. Resident Assistant for 60 students.

experience

2011 - Present   **MIT LABORATORY FOR MANUFACTURING AND PRODUCTIVITY**   **CAMBRIDGE, MA**
Graduate Research Assistant
Economic analysis of efficiency improvements
  • Analyzing historic effects of energy efficiency gains on increased energy and resource use.
  • Utilizing various statistical techniques, e.g. econometrics and Monte Carlo, in R, SAS, and Excel.
Quantitative life cycle assessment (LCA) of diesel engine manufacturing for Cummins Inc.
  • Creating Cummins' first comprehensive LCA from design, manufacturing, and supply chain data.
  • Reporting both to Cummins' CTO and the Director of Global Environmental Sustainability.

2009 - 2011   **NATIONAL INSTRUMENTS**   **AUSTIN, TX**
Software Systems Engineer, Product Partner Program
NI is a 6,000-person company specializing in software and hardware for control, test, and measurement.
  • Selected as a founding member of the Product Partner Program, charged with nurturing NI's external developer community through consulting and product features.
  • Created feature specifications and led team of engineers through implementation and testing (C++).
  • Led large outsourced partner project. Acted as Engineering liaison to key software partners.
  • Traveled to Europe to present multiple technical sessions and meet with key accounts
  • Achieved highest LabVIEW software certification within three years – youngest in company.

2008 - 2009   **NATIONAL INSTRUMENTS**   **AUSTIN, TX**
Product Support Engineer, Software Research and Development
  • Led R&D software quality efforts for NI's largest and most popular product, LabVIEW.
  • Assisted key accounts with troubleshooting in C++ and LabVIEW.
  • Served as a technical expert and trainer for our Applications Engineers globally.
  • Created software certification examinations for internal and external use.

2008   **NATIONAL INSTRUMENTS**   **AUSTIN, TX**
Applications Engineer, Engineering Leadership Program
18-month leadership training program (graduated early in 9 months)
  • Created proof of concepts for customers and trade shows in LabVIEW and C#.
  • Assisted customers with automated vision, motion control, real-time OS, and FPGA products.
  • Taught technical courses for engineers and professors. Presented products at trade shows.

technical   Python, R, SQL, SAS JMP, and C#. I program for research, recreation, and data mining competitions.

personal   I love to create: avid beer brewer, photographer, metalworker, musician, filmmaker, and graphic designer.