Evan N. Moreira

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Education

BS • Mechanical Engineering
Minor: Business and Robotics
University of Massachusetts, Lowell, MA • Expected Graduation: May 2015

Relevant Courses
- Engineering Project Management
- Design of Experiments
- Microprocessors
- Artificial Intelligent

Academic Projects
- Designed and assembled a four bar linkage to move through three prescribed positions
- Developed an algorithm to design a solar water heating system and optimize the system by:
    1. Designing the physical pipe network
    2. Calculating fluid pressure loss throughout the system
    3. Determining pump power requirements
    4. Estimating the overhead and annual operational cost of the design
- Designed and programmed user interface to perform steady state heat transfer calculations for a rod
- Capstone: Investigated the Quality of 3D Printed Inserts

Work Experience

R&D Mechanical Engineer Intern • Instron, Division of ITW   **(July 2012 – Current)**
Norwood, MA
- Performed research to develop new grips for material testing
- Redesigned current products to maximize their performance and production
- Modelled existing complex frame assemblies for use in mounting accessories and installation drawings
- Effectively communicated with Manufacturing and Electrical Engineers along with the Purchasing department to oversee Engineering Change Orders
- Maintained SolidWorks Enterprise Product Data Management (EPDM) infrastructure
- Developed engineering marketing tool used to support Sales by determining the appropriate Advance Video Extensometer system setup
- Shock testing on Advance Video Extensometer to improve product performance and life.
- Use SolidWorks, Agile PLS and EPDM daily

Operations Internship • BTS Asset Management   **(June 2009 – Jan 2012)**
Lexington, MA
- Developed user-friendly Excel Worksheets to perform audits and reconciliation
- Supported administration in execution of audits and the reconciliation of clients' accounts
- Assisted in establishing new accounts

Marketing Internship • BTS Asset Management   **(June 2008 – Aug 2008)**
Lexington, MA
- Assisted with the acquisitions of new clients and sustainment of existing customer relations
- Responsible for accurate entry of representative data
- Supported administration in daily work-flow

Skills

Operating Systems: Ubuntu Linux 14.04, Windows XP/Vista/7, Mac OS X
Software: *Fluent in* SolidWorks, Matlab, Microsoft Word, Excel, PowerPoint, Agile PLS,
       Familiar with Pro/ENGINEER, SolidEdge, MathCad, FEMAP, Abaqus, AutoCAD Fusion 360
Programming Languages: C, Python, Assembly, HTML
Quality and Statistical Tools: QFD, Six Sigma, Gage R&R

Volunteer Work
- Greater Boston Food Bank, Boston, MA: April 2010
- American Red Cross, active blood donor