

Jacob Bailey

Home

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School

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Objective

- To obtain full-time employment in the field of mechanical engineering.

Education

- Simon Kenton High School (2009)
 - Graduated valedictorian.
- Massachusetts Institute of Technology (2013)
 - Currently enrolled as a senior with a 4.5 GPA (5.0 scale). Will graduate early with a Bachelor's of Science in the Department of Mechanical Engineering in February of 2013, having completed coursework in December of 2012.

Qualifications/Experience

- 4th year student of mechanical engineering at the Massachusetts Institute of Technology (class of 2013)
 - Have completed classes on prototyping, large-scale production techniques, thermal fluids, sustainable energy, transportation technology, and numerical computation with Python and MATLAB, with extensive lab experience.
- 2009 Presidential Scholar
 - Was one of roughly 120 students selected nationwide to take part in the Presidential Scholars Program. (<http://www2.ed.gov/programs/psp/index.html>)
- Completed MIT's course on toy design in Spring of 2010
 - Worked in a group of six to design and prototype an original toy concept in 14 weeks. Practiced division of labor, conflict avoidance and resolution, meeting benchmark deadlines, and rapid prototyping including 3D printing and woodwork modeling.
- Attended the 2011 "Design 2 Part" exposition in Covington, Ky
 - Gained knowledge of current production techniques and how they have been driven by a changing market - e.g. latest generation 3D printers, limited-run aluminum die casting.
- Completed MIT's course on large-scale production and design in Fall of 2011
 - Worked in a group of 7 to design and manufacture a run of 50+ yo-yo's. Gained hands-on experience with CNC machinery, thermoforming, injection molding, and CAD/CAM software.

Prior Work Experience

- Intern - Engenesys LLC (Summer 2011 - Spring 2012)
 - Gained an in-depth knowledge of SolidWorks, including part detailing/drawing standards.
 - Wrote an instruction manual and sales flyer for a custom product.
 - Conducted market research for the purposes of directing design efforts.
- Intern - Lexmark International (Summer 2012)
 - Worked extensively in a lab setting to troubleshoot mechanical modes of failure, as well as prototype and test possible solutions.
 - Worked on multiple task forces dedicated to rapid problem analysis and resolution.
 - Gained extensive experience conducting thermal testing with thermal cameras and thermocouples, as well as analyzing the resulting data in MATLAB.+

References

- John Paselsky
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- Ric Bishop
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