Justin Eric Steuer

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Education

University of Michigan College of Engineering   **Expected Graduation: April 2017**
Major: Industrial and Operations Engineering
Minor: Mathematics
Dean's List, University Honors, James B. Angell Scholar   **2015-2016**
- **EST.GPA:** 3.80   **Major GPA: 3.985**
- **Relevant Coursework:** Calculus 115/116, Linear Algebra 214, Advanced Calculus 215, Differential Equations 216, Engineering 101 (computer programming), Engineering Economics 201, Operations Modeling 202, Ergonomics, Math 425(Intro to Probability), Linear Statistical Models 366, Markov Processing 316, Optimization Methods 310, Mathematical Models 462, Data Processing 373, Advanced Optimization Methods 491

Experience

- **Stryker Corporation Summer Business Analyst Intern**   **May 2016 - August 2016**
  - Generated a linear program to optimize the utilization and allocation of project technical hours in each release cycle while maximizing the amount of high priority projects being completed to streamline the project management process
  - Managed and facilitated the updates and enhancements of IT systems, maintaining constant communication through weekly meetings between business stakeholders and the development team to ensure the projects were on a confirmed timeline and completed on time
  - Created a system process flow from product order entry to revenue recognition to allow for process optimization opportunities and retirement of legacy systems
- **University of Michigan Industrial and Operations Research fellow/assistant**   **Summer 2015 - Present**
  - Collaborated with University of Michigan IOE professors to perform data processing and statistical modeling on the impact of population demographic shifts on organ availability in liver allocation regions and liver transplant donor rates over the next 25 years
  - Generated a statistical model of the liver transplant waiting list in U.S. over the next 25 years using historical data from UNOS and data processing/coding on Microsoft Excel
- **Center for Healthcare Engineering and Patient Safety Research Fellow**   **Fall 2016 - Present**
  - Worked on a team of IOE professors and Ph.D.'s to generate a model and program to optimize the block scheduling of medical residents in the University of Michigan hospital
- **Optimization Case Study Project**   **Winter 2015 - Spring 2015**
  - Analyzed a company's inventory management strategy, performed an economic order quantity analysis, and wrote a report detailing the recommendations and changes necessary to optimize the company's factory inventory and costs
  - Evaluated a company's investment project options using economic analysis techniques, generating incremental savings and income statements to calculate the net present worth and minimum rate of return of each project.
  - Generated a persuasive report conveying my findings and recommending which project the company should invest in
- **Big Data Analytics and Statistical Modeling Case Study Project**   **Winter 2016 – Spring 2016**
  - Analyzed and data processed a spreadsheet of millions of company case records using Microsoft Access and Excel, and generated a binary logistic regression model in Minitab utilizing the data to predict whether a customer complaint record would be escalated to litigation
  - Wrote an in-depth report describing my methodology and findings from my mathematical model, giving validation to my results and recommendations to the company for further analysis
- **Wolverine Capital Investments: Investor**   **Fall 2013 - Present**
  - Chosen out of an application process of over 300 students and discussed monthly market updates and stock market statistics gradually creating a varied investment portfolio of different stocks purchased by the club
- **Head Camp Counselor**   **Summer 2013**
  - Managed and took care of children ages 3-6 at the JCC Kaplen Summer Day Camp

Volunteerism and Community Activism

- **Community Service Event at Camp Acorn**   **August 2016**
  - Volunteered at a day-camp for children and adults with multiple disabilities helping them with activities and tasks
- **7th Mile Music**   **Fall 2013-2015**
  - Taught music and played guitar to children in several impoverished lower income areas of Detroit

Skills

- **Programming Experience:** MATLAB, Minitab, Microsoft Access, VBA coding, Microsoft Word, Excel, PowerPoint, R Studio, Adobe Photoshop, Solid works(CAD), Python, SAS Enterprise, Latex, Sketchup, AMPL, Power BI
- **Personal Interests:** Playing electric guitar, playing basketball, weightlifting, listening to music