

Zachary VerSchure
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Education

University of Michigan – College of Engineering
B.S.E. Industrial and Operations Engineering
Stephen M. Ross School of Business – Minor

Ann Arbor, Michigan
September 2012 – May 2016

GPA: **3.727/4.00**

Relevant Courses: Optimization, Accounting, Business Decision Making, Operations Modeling, Data Processing and Database Management, Probability and Statistics, Ergonomics

Dean's List: Winter '13, Fall '13, Winter '14

Experience

University of Michigan Center for Healthcare Engineering and Patient Safety
Research Assistant for Amy Cohn, PhD.

Ann Arbor, Michigan
May 2013 – Present

- *Weather Impact on Airline On-time Performance*
 - Researched the impact of various weather metrics on on-time performance for Southwest Airlines
 - Built an analytical framework and a MySQL database that merged 11 years of flight and weather data resulting in more efficient analysis of the meteorological effects on on-time performance.
 - Analyzed 11 years of flight and weather data, using the database, to find significant weather factors which are used to create a better schedule for Southwest
 - Presented methodology and findings for the Network Planning team at Southwest
- *Pediatric Emergency Medicine Resident Scheduling*
 - Updated optimization models used to create monthly shift schedules for residents working in the University of Michigan Pediatric Emergency Department, reducing average time by a factor of 24.
 - Wrote code and ran 18,000 simulations to prove the need for a better connection between yearly schedule and monthly schedules, and presented to the Hospital Residency Director
 - Presentations: *Automated Shift Scheduling Improves Schedule Quality for Residents in a Pediatric Emergency Department* (2014 SHS Healthcare Systems Process Improvement Conference)
- Collaborated with other undergraduates and post-graduates on additional projects and meetings

Cincinnati Children's Hospital Medical Center
General Surgery Intern

Cincinnati, Ohio
June 2012 – August 2012

- Observed general hospital and operating room operations
- Presented and participated in various medical conferences

Extracurricular Activities

The Sigma Chi Fraternity

Ann Arbor, Michigan

- Assistant Pledge Educator
 - Taught Sigma Chi history and values through engaging activities and discussions
 - Developed and organized weekly classes and events for 20 new members and 70 current members
- House Manager
 - Managed day to day house operations, scheduled inspections and maintenance work, managed budget and collected rent checks

Alpha Pi Mu Initiate

Ann Arbor, Michigan

- Alpha Pi Mu, a national honor society of Industrial engineers that recognizes top industrial engineering students for their academic achievements
- Collaborated with other top industrial engineers to improve professional development and networking skills

Computer Skills and Interests

- Platforms: Windows Vista, Mac OS, Linux
- Applications: MS Word, Excel, PowerPoint, Access
- Languages: Working knowledge of C/C++, MATLAB, SQL, MiniTab, LaTeX, Excel VBA
- Interests - Golf, Long-distance running, *Top Gear* aficionado, College football fan