

Andrew C. Turek

701 Catherine Street, Ann Arbor, MI, 48104 • 248-444-1636 • acturek@umich.edu

EDUCATION

University of Michigan *B.S.E Electrical Engineering* ----- September 2014 – Present

- **GPA – 3.82/4.00**
- **Expected Graduation Date: May 2018**
- Relevant Coursework: Programming and Data Structures, Logic Design, Electronic Circuits, Signals and Systems, Semiconductor Devices, Electromagnetics, Power System Design and Operation, Digital Signal Processing, Power Machinery and Drives

WORK EXPERIENCE

DTE Energy *Distribution Operations Engineer* ----- May 2016 – August 2016

- Utilized mapping technology and circuit analysis software to balance electric load on circuits effectively reducing power outages and improving power quality for customers
- Performed field operations to assess infrastructure and submit upgrade requests for approval by upper level management with the goal to increase grid stability while minimizing cost
- Built interactive circuit balancing tool that incorporated a complex algorithm that can be leveraged by future employees for business analysis and engineering planning for phasing jobs

RACER Trust *Landfill Conversion to Solar Farm Project Engineer* ----- January 2016 – December 2016

- Analyze feasibility of implementing a solar farm on various landfill sites in the state of Michigan in order to prepare a report that will be distributed to potential buyers
- Research prior methods of implementation and create regression models to determine the optimal arrangement of solar panels that minimizes cost
- Communicate effectively with industry sponsors as well as other team members on progress and potential challenges, proposing and listening to plans on how to address the teams most critical issues so that a quality final product can be delivered on time

Magnetic Search Retargeting *Professional Services Engineer* ----- May 2015 – August 2015

- Discovered and analyzed complex issues occurring within a client's implementation of services and provided clear solutions to the Client Success department
- Gathered data from a database in SQL, manipulated the data in Perl and then created HTML to display data in a user-friendly way to enable the company to utilize its data more effectively
- Became highly proficient in the Microsoft Office suite along with Google services which resulted in a boost in my troubleshooting ability and adaptiveness to changes within a company

VOLUNTEER EXPERIENCE

GRID Alternatives *Solar Spring Break Volunteer* ----- November 2015 – March 2016

- Completed the entire installation process of solar panels on three homes in San Diego, California with a team of University of Michigan students, serving those who can't otherwise afford renewable energy and effectively cutting the families energy bills in half
- Organized fundraising events that involved tapping into local businesses as well as applying for grants in order to raise over \$10,000 required for the trip

LEADERSHIP

ECE Advising Office *Peer Advisor* ----- September 2016 – Present

- Serve as a mentor to undergraduate ECE students by listening to their needs, asking clarifying questions and providing course and career information to produce the best outcome
- Work closely with the office administration within ECE so that if there is an issue that cannot be directly resolved, the correct department can be contacted to provide a quick and accurate answer

Michigan Bulls 15U *Assistant Baseball Coach* ----- May 2016 – July 2016

- Mentored high school baseball players in practices and 16 tournament games under rotating roles, always building a culture of player-to-player accountability which improved team performance
- Executed in-game decisions that directly impacted the outcome of the game by studying opposing teams and collaborating with the coaching staff in order to put players in a position to succeed