

GABRIEL APTEKAR

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EDUCATION

University of Michigan, Ann Arbor

B.S.E. in Mechanical Engineering

Minor in Mathematics

College of Engineering Honors Program

Summa Cum Laude

April 2016

GPA: 3.84/4.00

WORK EXPERIENCE

Texas International

Business Analyst

June 2016 - Present

Houston, TX

- Combine data from price lists, Quickbooks, eBay, Amazon and other third party services
- Create reports in Pandas to assess the profitability and demand for products on ecommerce platforms
- Manage Wiser auto pricing software and create custom pricing rules

Gates Corporation

Mechanical Engineering Intern

Summer 2015

Rochester Hills, MI

- Designed and created an oscillating testing fixture to evaluate the fatigue life of a future product
- Designed and assembled a manual torsional testing apparatus for high (750 Nm) torque applications
- Assisted in the transition from Creo to NX 9 by training staff and creating generic parts

University of Michigan

Research Assistant

October 2012 - April 2013

Ann Arbor, MI

- Analyzed images from the satellite SOHO to determine the water production of various comets
- Coauthor of a paper published in The Astronomical Journal

PROJECTS

Analytical Product Design: Hybrid Mobility Aid Project

Fall 2015

- Developed a mobility aid that can function as a knee scooter or crutches
- Modeled all components and created drawings using NX 9
- Manufactured a functioning prototype using a mill, lathe and welding operations

Design and Manufacturing II: Arduino Controlled Linkage

Fall 2014

- Created a four bar linkage capable of reflecting a moving laser beam on a quarter inch target
- Tuned the PID controller to ensure quick and concise movements
- Designed the geometry and modeled all components in Solidworks

COMPUTER SKILLS

Computer Languages

Python-Pandas, Matlab

3D Modeling

NX 9, Solidworks

Misc

Gitlab, Microsoft Word, Excel