Nathan J. Vorwerck

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Education

University of Michigan, Ann Arbor, Michigan
College of Engineering, May 2017
Bachelor of Science in Computer Science Engineering
GPA: 3.735 / 4.00

Relevant Courses:

Data Structures and Algorithms	Intro to Artificial Intelligence	Discrete Mathematics
Operating Systems	Computer Organization	Calculus 1, 2, & 3
Interactive Computer Graphics		Linear Algebra

Work Experience

Nexteer Automotive, Saginaw, MI
Software Engineering Intern, Summer 2016
- Helped design and implement a driving simulation platform to demonstrate company products for use in tradeshows
  - TCP/UDP socket/CAN network communication amongst various software and hardware components
- Used "bit-banging" and memory mapped IO to implement integrated circuit driver protocols including SPI and I2C

IT Intern, Summer 2015
- Developed a PowerShell Script to display server information in HTML
- Manipulated large amounts of text data in order to more efficiently perform data cleansing activities
- Monitored and maintained permissions and change requests to Siemens PLM system for organization

Halla Mechatronics, Bay City, MI
IT Intern, Summer 2014
- Wrote Java plug-ins for software IBM Rational Rhapsody to expedite the daily work flow
- Developed a Java application to automate the importation of product requirements documents from customers into a PTC Integrity database

Extra-curricular Experience

WolverineSoft, University of Michigan, Ann Arbor, MI
Video Game Development Club, 2013-Present
- Managed a team of 4 people to create a video game including sound, art and mechanical elements which won several awards during a 48 hour competition
- Learned hardware and software optimization techniques to create more responsive and higher quality games

Eta Kappa Nu, EECS Honor Society
Active Member, 2015-Present
- Tutored students in math, physics and programming
- Volunteered for various events and organization promotions

Miscellaneous
- Contributed to various open source projects (2016-Present)
- Previously a member of University of Michigan's varsity track and field team (2013-2014)

Awards/Honors
- Dean's List (2013- 2016)
- Student-Athlete Academic Achievement Award Recipient (2014)
- Received University of Michigan Regents Scholarship (2013)