

Present:  
2006 Hamilton-Bursley  
1931 Duffield St.  
Ann Arbor, MI, 48109

# Ben Reeves

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## EDUCATION

- University of Michigan** Ann Arbor, Michigan **2019**
- Pursuing B.S.E in Computer Science, 4.00 GPA
  - Relevant coursework: Programming and Data Structures, Discrete Math, Matrix Algebra
- Neuqua Valley High School** Naperville, Illinois **2015**
- Graduated, 4.38 GPA (4.0 scale, weighted), *Magna Cum Laude*.

## SKILLS

- 6 years programming experience, primarily in Java and C++/C#/C
- Working proficiency in Python, Matlab, and Lua
- Skilled with Git, Unreal Engine 4, Unity3D, Android, Blender, Qt Framework, OpenGL
- Object-Oriented Programming and utilization of large-scale APIs (Android Framework, Unreal Engine 4)

## EXPERIENCE

**Undergraduate Researcher** **Sept. 2015 Present**  
University of Michigan, Department of Industrial and Operations Engineering

- Independently developing a 3D visualization and simulation software to aid city officials in planning and scheduling large-scale emergency evacuations for major metropolitan cities (Sydney, New Orleans, Ann Arbor, etc.).
- Establishing collaborative communication through student-mentor relationship.

**Team Coach, Programmer, and Builder** **Sept. 2014 Apr. 2015**  
VEX Robotics Team #2360N, Neuqua Valley High School

- Enhanced interpersonal engineering skills while working in a team of 6 students to design, build, code, and operate an award-winning VEX robot.
- Improved the cascading lift design for the robot by implementing a new, more effective construction.
- Independently designed, programmed, and tested a computer simulation of the robot in order to help team stand out during judging at the VEX national competition.
- Oversaw inter-team alliance strategy and directed drivers during gameplay at the VEX national competition, helping lead the team to victory, tying for 3<sup>rd</sup> place out of 182 teams.

**Delivery Dispatcher, Phone Worker, and Bus Boy** **Jul. 2014 Present (Off-Season)**  
Lou Malnati's Pizzeria, Naperville, Illinois

- Independently developed an Android application in order to double the efficiency of dispatching deliveries.
- Organized and dispatched roughly 100 delivery orders per night.

**Church Volunteer** **Jan. 2009 Present (Off-Season)**  
Community Christian Church, Naperville, Illinois

- Led a small group of 4th and 5th grade boys every Sunday morning by facilitating small group activities.
- Played electric guitar on stage during youth group services.

## PERSONAL PROJECTS

**"Battleship With Bros" Android App** **Jan. 2016 Present**

- Working with a friend to develop and publish a 2-player Battleship app similar to Words With Friends.

**24-Card Solver** **Dec. 2015 Jan. 2016**

- Developed an algorithm for solving 24-Cards that is 4.6 times as efficient as the "brute-force" algorithm.

**"Bengine" Game Engine** **Feb. 2015 Aug. 2015**

- Gained knowledge of 3D computer graphics in OpenGL/C++ by coding a home-made 3D game engine.