

Present:
2006 Hamilton-Bursley
1931 Duffield St.
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Ben Reeves

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EDUCATION

- University of Michigan** Ann Arbor, Michigan **2019**
- Pursuing B.S.E in Computer Science
 - 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 in Java, C++/C#/C, Lua, Mathematica, and Matlab
- Familiar with Git, Unity3D, Unreal Engine 4, 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 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 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 3rd 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

- T-Shirt Music Analyzer** **Mar. 2015 Present**
- Researching various methods of using Arduino microcontroller to perform digital signal processing on music in order to display results on a T-Shirt-mounted LED spectrum analyzer.

- "Bengine" Game Engine** **Feb. 2015 Present**
- Developing extensive knowledge of 3D computer graphics in OpenGL and C++.

- Altoids Guitar Amp** **May 2011 Aug. 2011**
- Improved soldering skills and researched amplifier circuits to build a miniaturized guitar amplifier.