

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: Matrix Algebra, Accelerated Intro to Computers & Programming
- Neuqua Valley High School** Naperville, Illinois **2015**
- Graduated 4.38 GPA (4.0 scale, weighted), *Magna Cum Laude*.
 - Relevant coursework: AP Computer Science A, Digital Electronics, Principles of Engineering

SKILLS

- 6 years programming experience in Java, C++/C#/C, Lua, Mathematica, and Matlab
- Familiar with Git, OpenGL, Unity3D, Unreal Engine, Blender, Qt framework, Android
- Comfortable with DOS and UNIX based systems; command-line and GUI

EXPERIENCE

- Undergraduate Researcher** **Sept. 2015 Present**
University of Michigan, Department of Industrial and Operations Engineering
- Independently developing a compelling, feature-full, and interactive 3D visualization for Professor Pascal Van Hentenryck's large-scale evacuation planning algorithm.
- 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.