

## **Ryan T. Morey**

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### **Education:**

- Rutgers, The State University of New Jersey *New Brunswick, NJ - May 2018 (expected)*
  - Bachelors of Science in Electrical and Computer Engineering with a double major in Computer Science
  - Enrolled in the School of Engineering Honors Academy
- Columbia High School *Maplewood, NJ - June 2014*
  - GPA:

### **Experience:**

- Math is a Sport! LLC Lead Intern *Maplewood, NJ - 2012 - 2014*
  - Wrote dozens of Python/Sage programs to generate problem sets of 200+ questions each
  - Lead small teams of about four interns in producing problem set generators
  - Contributed to the design of Math is a Sport!'s iOS app, [Touch'N Slide Calculator](#)
- Lead Programmer for Columbia High School's Varsity Robotics Team *Maplewood, NJ - 2013 - 2014*
  - Used RobotC to program a student-built robot to compete in US First's FTC competition
  - Directed a team of three other programmers, working collaboratively with about five other team members
  - Approached the competition tasks in novel ways, making intelligent use of sensors and other data to improve robot performance
  - Also contributed in a large part to the design and mechanical construction of the robot
  - Ranked #1 Team at the 2014 New Jersey State Championships
- Math and Physics tutoring *Maplewood, NJ - 2012 - 2014*
- New Jersey Governor's School of Engineering and Technology *New Brunswick, NJ - 2013*
  - Selected as one of 88 scholars in New Jersey to participate in an engineering summer program at Rutgers University
  - Worked with two other students on a project titled [Parallelizing Programs for the Multicore Era](#)
    - Demonstrated several ways to utilize the multi-threading capabilities of modern CPU's

### **Awards/Recognition:**

- New Jersey Science League - 7th place statewide *Maplewood, NJ - 2013 -2014*
  - Competed in the AP Physics C exam competition
  - Ranked 7th individually in the state out of several hundred participants
  - Contributed to Columbia High School's team winning 4th place statewide
- John Phillips Sousa Band Award *Maplewood, NJ - 2014*
- National Marching Band Award *Maplewood, NJ - 2014*

### **Activities/Leadership/Interests:**

- Marching Band High Brass Section Leader *Maplewood, NJ - 2012 - 2014*
  - Lead and taught about eight trumpet players and about three mellophone players each year
  - Organized and conducted sectional rehearsals, resolved any conflicts within the section
- President of the Columbia High School Computer Programming Club *Maplewood, NJ - 2013 - 2014*
- Voting member of the Columbia High School Student Council *Maplewood, NJ - 2013 - 2014*
- Boy Scouts of America Troop 21 Patrol Leader *Maplewood, NJ - 2010 - 2012*

### **Skills:**

- Computer Programming
  - Experienced in Python, HTML, RobotC, BASH scripting
  - Experienced using the Git version control system
  - Proficient in CSS, Javascript, Java, Perl, C, Matlab
  - Very experienced in Linux and Windows, both used regularly
- Office Software: Word, Excel, PowerPoint
- Moderate experience with 3-D Printing using MakerBot Printers