

## Education

- August 2016 - **Georgia Institute of Technology (Class of 2020)**, *Electrical Engineering*.  
Current
- September 2012 - June 2016 **Byram Hills High School (BHHS)**.
- Summer 2015 **MIT Launch**, *MIT Sloan School of Management*.
  - Learned the basics of entrepreneurship, conducted market research and built a fully functional website
  - Worked on a 4 person team with multiple disciplines
  - Features: real-time collaborative code editing, video chat, file transfer and screen sharing
- September 2015 - June 2016 **MIT OpenCourseWare AI Independent Study**.  
I independently created a checkers and Tetris AI. Additionally, I created a Neural Network API in python.

## Projects (Demos available at: [www.briansinger.me](http://www.briansinger.me))

- September 2014 - June 2016 **JGrader ([www.jgrader.com](http://www.jgrader.com))**, *Full Stack Developer*.
  - Cloud-based grading system for Java, over 120 teachers use the website
  - Worked on a three person team with another programmer and a designer
  - Features: executable code in the browser, teacher commenting, automated test cases
- June 2015 – Current **Process Watch ([www.process.watch](http://www.process.watch))**, *Full Stack Developer*.
  - Monitors backups and replications by automatically parsing emails sent by client hardware systems
  - Node.js and MongoDB stack, processes over 50,000 emails per month
  - Features: Email notification, custom string and regex parameters, per company administration
- September 2012 – October 2015 **High School Research**.
  - Two novel devices that identify and treat bruxism (excessive grinding and/or clenching)
  - Device 1: EEG-based, uses machine learning to detect bruxism from data on a single electrode
  - Device 2: Video-based, uses Eulerian Video Magnification to amplify the jaw movement (preliminary patent filed)

## Experience

- Summer 2016 **Mobile1st ([www.mobile1st.com](http://www.mobile1st.com))**, *Full Stack Developer- Intern*.
  - Taught myself Angular and PHP (Laravel)
  - Added major features and fixed bugs

## Volunteer Work

- April 2015 - June 2016 **Helping Hands Club, BHHS**, Co-Founder.
  - Worked with E-nable to 3D print prosthetic hands for children
- September 2012 - June 2016 **Tech Club, BHHS**, President.
  - Mentored students through programming projects
  - Tied for first place in a programming contest at Cornell

## Awards

AAN Research Prize Winner, Science Research Outstanding Sophomore Award, MIT THINK Finalist, U. Rochester - Bausch and Lomb Award, 1st Place Poster JSHS, 2nd Place Poster WESEF, WESEF Young Scientist Award

## Programming Languages and Frameworks

Node.js (Express), PHP (Laravel), MongoDB, SQL, HTML, CSS, Javascript, Angular, C++, Java, MATLAB, Mathematica