

**University Address**  
Cambridge, MA 02139

## Mark Joseph Wright

Email: [mjwright@mit.edu](mailto:mjwright@mit.edu)  
Phone: 817-368-9472  
[www.linkedin.com/in/markjwright](http://www.linkedin.com/in/markjwright)

**Home Address**  
Fort Worth, TX 76123

### EDUCATION

<b>Massachusetts Institute of Technology</b>	<i>Candidate for Bachelor of Science in Electrical Engineering and Computer Science</i> <b>GPA: 4.8/5.0</b>	Cambridge, MA Class of 2021
<i>Relevant Coursework includes Performance Engineering of Software Systems, Elements of Software Construction, Algorithms, Artificial Intelligence, Computation Structures, and Interconnected Embedded Systems</i>		
<b>The Oakridge School</b>	<b>GPA: 4.83</b> Weighted; 4.00 Unweighted <b>Valedictorian</b> <b>SAT: 2300    ACT: 35</b>	Arlington, TX May 2017

### EXPERIENCE

<b>MIT Kavli Institute (MKI) – Undergraduate Researcher</b>	Summer 2019
<ul style="list-style-type: none"><li>Designed the framework for a pipeline to process TESS satellite images for machine learning applications</li><li>Programmed algorithms to align, subtract, and identify potential transient stars from TESS images</li><li>Created a web application used to classify and store a dataset of TESS images in a SQL database</li></ul>	
<b>Alcon – eCommerce Intern</b>	Summer 2018
<ul style="list-style-type: none"><li>Analyzed and interpreted data to achieve customer retention on the eCommerce channel</li><li>Designed 34 unique Excel macros to allow the business to interpret customer data on an ongoing basis</li><li>Contributed to increasing customer retention from 770 before to 902 after during the course of the internship</li></ul>	
<b>Welch Foundation Summer Scholar – 5 Week Fellowship @ University of Texas (<a href="http://wssptx.com">wssptx.com</a>)</b>	Summer 2016
<ul style="list-style-type: none"><li>Used computational methods to model the electrostatic environment of protein interactions</li><li>Wrote a research paper and presented a presentation and poster to a group of students and professors</li></ul>	
<b>Texas 33<sup>rd</sup> District Congressional Youth Advisory Council – Founding member</b>	2016-2017
<ul style="list-style-type: none"><li>Organized meetings with a congressman on a monthly basis to discuss current events and relevant topics</li><li>Advised Congressman Marc Veasey on youth opinion in his constituency concerning congressional legislation</li></ul>	
<b>The Oakridge School – 5k Organizer</b>	2016
<ul style="list-style-type: none"><li>Organized a charity 5k which raised \$5,000+ for a memorial scholarship fund for a classmate</li></ul>	

### RELEVANT PROJECTS

<b>Machine Learning Dataset Web Application – during Undergraduate Researcher at MKI</b>	Summer 2019
<ul style="list-style-type: none"><li><b>Purpose:</b> to take TESS satellite images, align and subtract them, identify potential transient stars within, and present the image to researcher with a UI to tag the images and place them in a SQL database</li><li>Achieved using a Flask Python backend communicating with a JavaScript frontend that presents the user an interface to easily tag the images and store the results in a central database</li></ul>	
<b>Child Safety Monitor – Interconnected Embedded Systems final project</b>	Spring 2019
<ul style="list-style-type: none"><li><b>Purpose:</b> to create a way for parents to set boundaries for their child to play in while providing real-time alerts if their child goes outside the set zones</li><li>Implemented using a GPS, speaker, and ESP32 microcontroller to send coordinates to a server where users could set boundaries using a Google Maps API and receive alerts and location updates on their child's location</li></ul>	

### LEADERSHIP, HONORS, AND ACTIVITIES

<b>Varsity Football – Massachusetts Institute of Technology</b>	2017 – Present
<ul style="list-style-type: none"><li>Starting placekicker, school record for most kicking points in a game</li></ul>	
<b>Delta Kappa Epsilon Fraternity – Alumni Relations Chair</b>	2017 – Present
<ul style="list-style-type: none"><li>Wrote and distributed the annual alumni newsletter</li><li>Coordinated alumni events and raised money for house development projects</li></ul>	
<b>National Honors Society – President</b>	2015 – 2017
<ul style="list-style-type: none"><li>Organized community service events for 100+ students</li><li>Publicly spoke and inducted new members into the program</li></ul>	
<b>Optimist Club – Mr. Texan of the State</b>	December 2015
<ul style="list-style-type: none"><li>Awarded for outstanding scholastic performance and community involvement</li></ul>	
<b>National AP Scholar</b>	2017

### SKILLS

Python, Java, C/C++, HTML/CSS, JavaScript, SQL, BlueSpec, Git, Bash, Linux