RIMA REBEI

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EDUCATION

2017 - 2021 **Massachusetts Institute of Technology** **Cambridge, Massachusetts**
GPA: 4.8/5.0
Candidate for Bachelor of Engineering in Mechanical Engineering with a Certification of Autonomous Machines through the New Engineering Education Transformation (NEET)
Classes: Thermo-Fluids Engineering, Mechanics and Materials, Artificial Intelligence, Dynamics and Control, Electronics for Mechanical Systems, Numerical Computation for Mechanical Systems

2015-2017 **University of Illinois at Urbana-Champaign**
GPA: 4.0/4.0, Concurrent enrollment as a Non-degree Student during high school
Classes: Engineering Graphics and Design, Integrative Neuroscience, Microeconomics

EXPERIENCE

June 2019- August 2019 **Full Stack Developer Intern** **Seattle, Washington**
Nordstrom Technology
Developed the Promotion Verification Tool, a web UI that sends API calls to simulate various customer actions to provide Nordstrom Marketing with a user-friendly, automated promotion testing mechanism

February 2018- May 2019 **Product Design Engineering Intern** **Cambridge, Massachusetts**
MIT Object Based Media Lab
Designed a turbidity sensor and mount attached to SeeBoat, a remote controlled boat that measures and displays water quality in realtime; Transmitted sensor date via radio visible through an Android app

August 2017- November 2018 **Software Engineering Intern** **Cambridge, Massachusetts**
MIT Laboratory of Social Machines
Developed an audio feature for SpeechBlocks that characterizes voices in the room by age and gender
Visualized and analyzed app data of taps, clicks, and voices in the room through play trees using python

June 2018- August 2018 **Virtual Reality Software Engineer** **Cambridge, Massachusetts**
MIT Teaching Systems Laboratory
Created a virtual reality experience for pre-service, K-12 teachers to tackle implicit biases within a parent- teacher conference setting, now implemented in the Woodrow Wilson teacher master's program

PROJECTS

September 2018- December 2018 **iCane** **Cambridge, Massachusetts**
Led a team of 4 to create an assistive technology for the visually impaired that alerts users of head-level hazardous objects

February 2018- May 2018 **VRMIT** **Cambridge, Massachusetts**
Developed an interactive virtual reality tour of MIT with audio with three other MIT students to aid in making MIT's campus more accessible to a more diverse range of applicants

AWARDS

May 2019 **Autonomous MIT MOONSHOT Competition Robot - 3rd Place**
Solely designed and built a robot that can autonomously navigate and complete competition challenges

June 2018 **Johnson & Johnson MIT Undergraduate Research Opportunity Program Scholar**
Honoring 20 MIT researchers for their accomplishments in the 2018 academic year

June 2017 **2016 ExploraVision National Winner (Toshiba/ NSTA) - 1st Place**
Developed a visual prothesis called BEISight with three students, designed to fix effects of damaged retinas

SKILLS

Languages Python, JavaScript, C, C#, R, CSS, HTML, TypeScript

Tools/Skills Fusion 360, Solid Works, MATLAB, Angular, Arduino, Eagle, Sketch, Unity, Blender, Postman, Git, PCB design, rapid prototyping, embedded programming, interface and application programming