

# Mateo Mariscal

🌐 [mateomariscal.com](http://mateomariscal.com) ✉ [matmariscal@gmail.com](mailto:matmariscal@gmail.com) ☎ (617) 710-4141 GPA: 4.9

## EDUCATION

### MIT, CLASS OF 2020

MECHANICAL ENGINEERING WITH  
COMPUTER SCIENCE (2A6)

CONCENTRATION: ECONOMICS  
Cum. GPA: 4.9/5.0

RELEVANT COURSEWORK:  
MECHANICS & MATERIALS I,  
CONTROLS & DYNAMICS I, DESIGN &  
MANUFACTURING, COMPUTATIONAL  
STRUCTURES, FLUIDS, ELECTRONICS,  
PRODUCT ENGINEERING PROCESSES,  
THERMODYNAMICS, DIFFERENTIAL  
EQUATIONS, NUMERICAL METHODS,  
MEASUREMENT/INSTRUMENTATION,  
MACHINE LEARNING, ALGORITHMS

### HARVARD UNIVERSITY

DUAL ENROLLMENT IN HIGHSCHOOL

RELEVANT COURSEWORK:  
MULTIVARIABLE CALCULUS  
PRINCIPLE OF ECONOMICS [H.EXT]  
STARS & STELLAR SYSTEMS [H.EXT]

### CAMBRIDGE RINDGE & LATIN

Cum. GPA: 4.0/4.0

RELEVANT COURSEWORK: AP CALC  
BC, AP STAT, AP CS, AP PHYSICS,  
PRINCIPLES OF ENGINEERING,  
DIGITAL ELECTRONICS

## SKILLS

### SOFTWARE

CATIA • SolidWorks • Rhino • Inventor  
Simulink • AVL Cruise • CarSim • AWS  
Eagle • Photoshop • Illustrator

### PROGRAMMING

Python • Matlab • Command Line • C  
C++ • HTML/CSS • LaTeX • jQuery • Java

### MACHINING

OMAX Water Jet • 3-axis Milling • Lathe  
CNC ShopBot • Laser Cutter • PCB Mill  
Blacksmithing • Sandblast • MIG Welder

## LEADERSHIP & SERVICE

Tau Beta Pi Engineering Honors Society  
Pi Tau Sigma MechE Honors Society  
MIT Brazil Global Startup Labs 2020  
GEs Dare to Lead 2017  
MIT Liaison for March for Science

## WORK EXPERIENCE

### STEALTH MODE STARTUP | FOUNDING ENGINEER

August 2022 - Present | Brooklyn, NY

### BOSTON DYNAMICS | SENIOR MECHANICAL ENGINEER

June 2020 - July 2022 | Waltham, MA

- Designed and managed accelerated life test stands that evaluated virtually every assembly of Stretch, as well as manufacturing automation stands

### TESLA MOTORS | MECHANICAL ENGINEERING COOP FOR CLOSURES

February – August 2019 | Fremont, CA

- Designed and released parts and assemblies for Model S, 3, X, & Y.
- Designed a new seal system for R&D that improves vehicle NVH performance by 2.5 dB. Tesla is conducting a patent search for the concept.
- Managed general assembly deviation trials and design of manufacturing jigs.
- Conducted material property tests and system-level durability tests.

### CLEARMOTION | MECHANICAL ENGINEERING INTERN

May – Aug 2018 | Woburn, MA

- Redesigned structural components of linkage mechanism in active seat.
- Created GUI for data collection & processing for a study on vehicle motion.

### PRIMUS POWER | MECHANICAL ENGINEERING INTERN

January 2018 | Hayward, CA

- Designed an accelerated life durability test platform a 3-way mixing valve.

### CHANGING PLACES | UNDERGRADUATE RESEARCHER

September 2016 - December 2017 | Cambridge, MA

- Managed fabrication and involved in design of an autonomous vehicle.
- Designed a self-balancing platform for personal transportation, and SLAM.

### INSIA INSTITUTE FOR AUTOMOTIVE RESEARCH | MECHANICAL ENGINEERING INTERN

June - July 2017 | Madrid, Spain

- Used Simulink to interface CarSim & AVL Cruise to co-simulate vehicle tests.
- Created vehicle dynamic simulations to calculate / analyze rolling resistance, brake force distribution, slip angle, vehicle forces, etc.

### CENTER FOR BITS AND ATOMS | MIT ASSISTANT SHOP SUPERVISOR

February - August 2016 | Cambridge, MA

- Trained to use and service shop machines
- Made a remote controlled electric long board as my independent project.

### HARVARD CENTER FOR ASTROPHYSICS | SOFTWARE INTERN

June 2014 – March 2015 | Cambridge, MA

- Devised a voltage controller with a touchscreen interface currently fielded at the Submillimeter Array in Hawaii.

## CERTIFICATIONS

GeoTol 20 Hour GD&T Training  
OSHA General Industry Course

## LANGUAGES

Fluent: English, Spanish  
Intermediate: Portuguese