Maximo Machado

maximo@mit.edu | 215-696-1616 | Github: MaximoMachado

EDUCATION

Massachusetts Institute of Technology | GPA: 5.0 September 2019 – May 2023 Bachelor's Degree in Computer Science and Engineering Cambridge, MA WORK EXPERIENCE **Integration Engineering Intern** June 2018 – August 2019 Finisar Corp. Sherman, TX • Worked in ISO 4 cleanroom developing applications to improve efficiency and creating specs • Employed metrology and microscopy for failure analysis and developing process for wet etching • Member of Emergency Response Team **Laboratory Assistant** January 2016 – July 2016 North Lake College Irving, TX • Inventoried and maintained Physics Department lab equipment Physics tutoring **Assistant Manager** December 2006 - August 2015 Sun & Ski Sports Austin, TX • Led a team of 20+ employees • Ran social media, as well as all grassroots marketing **PROJECTS** Surface Plasmon Propagation in the Kretschmann-Raether Configuration | Python Fall 2020 University of Eastern Finland Simulation of Vector Beams Through High Numerical Aperture Lens | Python Fall 2020 University of Eastern Finland Characterization of the Flame-S Spectrometer for Spectral Imaging Research Spring 2020 University of Eastern Finland Free Form Lens Systems for 3D Printing | MATLAB, OpTaliX Spring 2019 University of Eastern Finland Procedures for Plating and Wet-Etching in III-V Semiconductor Devices Summer 2019 Finisar Corp. Photo-Filter Characterization for Photometric Identification of Be Stars Fall 2017 Austin College Improved Calibrating Equations for Volumetric Soil Moisture Measurement Spring 2017 Austin College Product Design, and Manufacturing Using 3D Printing | Autodesk 123D Fall 2016 Austin College

Languages: English (Native), Spanish (B1), Finnish (A1)

SKILLS

Programming: Python (NumPy, SciPy, Matplotlib, Pandas), MATLAB, Mathematica, Java

Document Creation: Microsoft Office Suite, LaTex, Markdown