# Brenno Ribeiro

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## Summary

Hard-working and self-motivated Mechanical Engineering Graduate student pursuing a Masters with a concentration in microfluidics. Strong proficiency in using Python with packages such as tensorflow, scikit-learn, pandas, and numpy for machine learning and data applications. A lot of experience with Swift and the iOS development environment, currently have two published apps on the App Store.

## Education

**University of Rhode Island**                                              Kingston, RI
Masters of Science in Mechanical Engineering
Expected Graduation Date: May 2019

**German International Engineering Program –**
**University of Rhode Island**                                              Kingston, RI
**Technische Universität Darmstadt**                              Darmstadt, Germany
Bachelor of Science in Mechanical Engineering
Bachelor of Arts in German
GPA: 3.91
Dean's List

**Related Coursework:** Machine Learning, Advanced Fluid Mechanics, Advanced Statistics for Research and Industry

## Experience

**University of Rhode Island  -  Kingston, RI**                    September 2017 – Now
Research in Microfluidics
- Performing research on the microfluidics of Lab-on-Chip devices
- Tasked to create a fluidic paper device capable of detecting phosphate levels in water.
- Creating an iOS app to quantify colorimetric measurements of various reactions

**Porsche  -  Weissach, Germany**                                    March – July 2017
Transmissions and Electric Powertrains Intern - R&D
- Worked on several projects in R&D in the areas of Transmissions, Electric Drives, and Internal Combustion Engines
- Gained insight into many innovative concepts and exposure to an R&D department environment in a major automotive company
- Worked extensively with MATLAB and Simulink

**TU Darmstadt  -  Darmstadt, Germany**                    October 2016 – February 2017
Research at the Institute for Internal Combustion Engines and Powertrains
- Assigned a project to analyze the correlations between vehicle speed and the temperatures of several emission components
- Work involved utilizing AVL Concerto to analyze data from test drives

**Toray Plastics  -  North Kingstown, RI**                              Summer 2014
Lumirror Technical Intern
- Assigned projects to help the Lumirror Technical Team
- Worked with Inventor (CAD) and Excel frequently

## Skills

- Software: Python, Swift, Matlab, HTML, CSS, CATIA, Simulink, SolidWorks, Concerto, Inventor, Word, PowerPoint, Excel, Mathematica, Maple, Visual Basic
- Languages: Fluent in English, Portuguese. Advanced in German. Beginner in French.

## Activities

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| 2014 Vice President, URI Powerlifting Team | Member, Pi Tau Sigma Mechanical Engineering Honor Society |
| Member, Phi Eta Sigma Honor Society | Member, Tau Beta Pi Engineering Honor Society |
| Member, Sigma Phi Epsilon Fraternity | Member, Phi Beta Kappa Honor Society |