

VINICIUS DA SILVA GONCALVES

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EDUCATION

Rice University

Houston, TX

Candidate for PhD in Electrical and Computer Engineering

Expected May 2022

Dissertation: application of learning-based techniques for wireless network real-time management and control

Relevant Coursework: Introduction to Deep Learning, Network Science and Analytics

Masters of Science in Electrical and Computer Engineering

May 2020

Thesis: Designed and built the first WLAN emulator with multi-user transmission capabilities and support for traffic from commodity devices

Relevant Coursework: Information Theory, Architecture for Wireless Communications

GPA: 3.76/4.00

Federal University of Itajubá

Itajubá, MG, Brazil

B.S. in Electrical Engineering

December 2015

SKILLS

Programming & Software C, C++, Python | MATLAB & Simulink | ns-3 | Linux Networking Kernel

Languages English (Fluent) | Portuguese (Native) | Spanish (Professional) | German (Basic)

PROFESSIONAL EXPERIENCE

Rice Networks Group

Houston, TX

Graduate Research Assistant

January 2017 – present

- Led and managed 5+ research projects, proposing novel research questions and engineering solutions
- Presented my research to collaborators from 3 sponsoring companies in quarterly meetings to refine projects
- Supervised one summer intern, offered training on advanced ML topics, and delegated an independent project
- Upgraded the Intro to Communication Networks undergraduate course to include ns-3 & ns-3 lab assignments

General Motors

São José dos Campos, SP, Brazil

Electrical Substation Technician

September 2015 – May 2016

- Implemented improvements and standardization to achieve the World Class Maintenance certification
- Executed project & managed contracts to replace 25 transformers containing PCB-contaminated insulating oil

Central Maintenance Intern

January 2015 – August 2015

- Designed a data-driven model to predict the plant's electric demand, allowing for a contract adjustment that saved ~\$1M per year (Awarded best intern project of the year and pitched it to the president of GM Brazil)
- Created 10+ business cases and managed 4 projects on energy efficiency and conservation, becoming the plant's representative in a forum to share best practices with all GM plants in South America

LEADERSHIP & ACTIVITIES

G.R.E.A.T. outreach program at Rice University

Houston, TX

Volunteer teacher

May 2019 – August 2019

- Taught the first GREAT class, in which international students present their countries & culture and teach STEM concepts during 4 hours to 18+ young adults with special needs from the Houston Community
- Assisted on the design decisions of the first class of the series, shaping the program for 4+ future classes

Brazilian Student Association at Rice

Houston, TX

Officer at the BRASA Rice

August 2016 – May 2019

- Planned and organized on-campus semesterly events for 300+ people to promote the Brazilian culture at Rice
- Advised and assisted incoming Brazilian students during the application process and the transition to Houston

Brazilian Science Mobility Program Scholarship

Houston, TX

Electrical and Computer Engineering Visiting Student at Rice University

January 2013 – December 2013

- Awarded a full scholarship to study abroad for one year based on academic performance and language test

Relevant Coursework: Digital Signal Processing, Nonlinear Systems Analysis, Mobile & Embedded Systems,

Electronic Systems Principles & Practice

GPA: 3.83/4.00