Vanine Sabino de Moura

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EDUCATION

PhD candidate, Purdue University

MS in Computer Science (Antenna Analysis), 2017, UFPE - Universidade Federal de Pernambuco

BsC in Electronic Engineering, 2013, UFPE - Universidade Federal de Pernambuco

TECHNICAL SKILLS

EM Tools: Ansys HFSS, SIwave CST Microwave Studio Cadence Allegro Fortran, C, C++, Matlab	Measurements: Vector Network Analyzer (VNA) Spectrum Analyzer Time Domain Reflectometer (TDR)	Prototyping: CAM for PCB Prototype

ENGINEERING EXPERIENCE SKILLS

● Antennas and Microwave:
- ○ Conformal and planar antenna design using Ansys HFSS;
- ○ Phased array antenna design using Ansys HFSS;
- ○ Power dividers, resonators and filters design using Ansys HFSS;
- ○ Prototype: experience using PCB circuit plotters (LPKF);
- ○ Measurement: experience operating vector network analyzers (VNA) and spectrum analyzers.

● Embedded Systems:
- ○ Wide knowledge over the entire product design process:
  - ■ Specification requirements;
  - ■ Circuit schematic and layout using Altium Designer;
  - ■ Microcontrollers programming;
  - ■ Mechanical design;
  - ■ Fabrication process (LPKF PCB manufacturing equipments);
  - ■ Tests and measurements.

PROFESSIONAL EXPERIENCE

Companhia Energética de Pernambuco/Universidade Federal de Pernambuco - Brazil
(September/2012 - January/2014) - Internship
● Development of embedded electronic system for controlling a smart antenna array

Motorola Mobility/Universidade Federal de Pernambuco Partnership - Brazil
(March/2013 - January/2014) - Verification Engineer
● Automated and manual testing on newly developed mobile products by Motorola Mobility

Centro de Tecnologias Estratégicas do Nordeste (CETENE) - Ministry of Science and technology - Brazil
(May/2018 - October/2019) - System Engineer
● Design of a real-time monitoring system for traction batteries.

Centro de Tecnologias Estratégicas do Nordeste (CETENE) - Ministry of Science and technology - Brazil
(November/2020 – August/2022) - Researcher
● Design of an IoT (Internet of Things) platform using blockchain technology for precision agriculture.

LANGUAGES

Portuguese: native
English: fluent

LIST OF PUBLICATIONS

SANTOS, Mauro Rodrigues dos ; De Oliveira B.G.M. ; de Melo, M. T. ; OLIVEIRA, A. J. B. ; Emmanuel A. de B. Santos ; FREITAS, R. D. ; **SABINO, V**. ; SERRA, R. ; LOBO, M. . A Smart Antenna System for Remote Supervision. In: International Symposium on Applied Electromagnetics and Mechanics, 2013, quebec. Proceedings of the ISEM2013, 2013. v. 1. p. 341-342.

SABINO, V.; PEREIRA-FILHO, O. M. C. . Cavity-backed annular conical antenna. In: 2017 11th European Conference on Antennas and Propagation (EUCAP), 2017, Paris. 2017 11th European Conference on Antennas and Propagation (EUCAP), 2017. p. 2979.

SABINO, VANINE; PEREIRA-FILHO, ODILON M.C. . MoM analysis of cavity-backed annular conical antennas. IET Microwaves Antennas & Propagation, v. 12, p. 1352-1359, 2018.

SABINO, VANINE; FERREIRA, DANIEL B. ; PEREIRA-FILHO, ODILON M.C. ; DA SILVA, LUIZ C. . Input Impedance of Conical Microstrip Antennas. In: 2019 International Conference on Electromagnetics in Advanced Applications (ICEAA), 2019, Granada. 2019 International Conference on Electromagnetics in Advanced Applications (ICEAA), 2019. p. 1235.

PEREIRA-FILHO, ODILON M. C. ; **SABINO, VANINE** . MoM Analysis of Cavity-Backed Annular Spherical Antennas. IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, v. 67, p. 3278-3287, 2019.

Vanine Sabino; Daniel B. Ferreira; Odilon M. C. Pereira-Filho; Luiz C. Da Silva. Analysis of Conical-Rectangular Microstrip Antennas. IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION (Early Access) 2021.