EDISON ENRIQUEZ C.

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SUMMARY

Electronics Engineer with a Master's degree and Ph.D. candidacy in Electronic Engineering, with a strong academic background and university-level teaching experience since 2014, specializing in the instruction of electronic design tools, electronic devices, digital systems, automatic control systems, and electrical/electronic circuits. Dedicated to the academic development of students by promoting practical, problem-solving-based learning. Proven ability to mentor groups of 10 to 15 undergraduate students in laboratory settings, fostering a deep understanding of technical concepts and the application of relevant technologies. Passionate about teaching, with strong communication skills and a proactive approach to educational innovation.

EDUCATION

Ph.D.(c), Electronic and Electrical Engineering   Graduating
Universidad del Valle, Cali, Co
School of Electrical and Electronic Engineering
Relevant coursework: Demand-side Management on Smart Grids , Local Energy Markets , Transactive Energy , Energy Internet , Reinforcement Learning , Smart Contracts and Blockchain , Tokenization and secure management and storage of digital assets , Automated Market Maker

M.S.C., Electronic Engineering   Graduating Dic 2018
Universidad del Valle, Cali, Co
School of Electrical and Electronic Engineering
Relevant coursework: Hardware Design Languages and Programmable Logic, Computer architecture, Dynamic partial reconfiguration in FPGAs , Web APP with Ruby on Rails and Redis

B.S.E., Electronic Engineering   Graduating Jun 2014
Universidad del Valle, Cali, Co
School of Electrical and Electronic Engineering
Relevant coursework: Hardware Design Languages and Programmable Logic, Image processing, Artificial Neural networks

TECHNICAL SKILLS

Data Analysis and Statistics: Python, Pandas , Numpy , SQL
Design and Modeling Tools: FUSION 360, LabVIEW, MATLAB, Microsoft Office , Latex
Programming: Python, C/C++ , Rust , Solidity , Java , HDL Lenguages (Verilog and VHDL)

Certifications: Ethical Hacker (Sep 2023) , Junior Cybersecurity Analyst Career Path - CISCO (Sep 2023) , Google Cybersecurity Professional Certificate , Lectura y Escritura en el Aula Universitaria ,

Languages: English (B1)

EXPERIENCE

Antonio Jose Camacho University institution, Cali, Co: Full time professor   Ago 2024 – Present
- Algorithm and Programming, C/C++ , Arduino , Internet of Things (IoT)
- Cybersecurity, ISO 27001 , NIST , ISO 31000, MITRE Framework , Risk Management , Ethical Hacking , Penetration Testing , Clean Code , Introduction to Cryptography,
- Micro-controller Systems, C++ Programming , Embedded Systems in C++ , Design Petterns , Embedded Software Engineering , Assembler
- Member of the Committee for Designing a Network Technology and Cybersecurity Program
- Member of the Industrial Electronics Technology Accreditation Committee

Antonio Jose Camacho University institution, Cali, Co: Adjunct Professor (12 hours/week) Feb 2023 – Jul 2024
- Java , Object-Oriented Programming (OOP) , design patterns , Clean Code
- Algorithm and Programming, C/C++ , RAII , Arduino , Internet of Things (IoT)
- Cybersecurity, ISO 27001 , NIST , ISO 31000, MITRE Framework , Risk Management , Ethical Hacking , Penetration Testing , Clean Code , Introduction to Cryptography,
- Electronic Communications, RF Communication , Networking ,
- Micro-controller Systems, C++ Programming , Embedded Systems in C++ , Design Petterns , Embedded Software Engineering , Assembler

Universidad del Valle, Cali, Co: Adjunct Professor (7 hours/week) Aug 2017 – Present
- Tutored 10-15 Undergraduate engineering students in design tools for electronic technology
- Tutored 10-15 Undergraduate engineering students in electronics devices

Universidad del Valle, Cali, Co: Tutor (6 hours/week) Aug 2014 – May 2016
- Tutored 10-15 Undergraduate engineering students in Digital Systems Laboratories, Laboratory of automatic control systems and Electronic/Electrical Circuits Laboratory

ACADEMIC PROJECTS

Development of a platform for the implementation of active learning didactics in electronic engineering based on the CDIO initiative Sep 2016 - Mar 2017
Research Assistant
- A remote experimentation laboratory was designed and implemented as a workspace within the framework of the CDIO initiative

Training module Based on FPGA with Embedded Logic Analyzer Sep 2011 - Mar 2013
Research Assistant
- System configuration via USB developed in Java with libusb library from the server (Java , Libusb)
- Development of an embedded system based on FPGA and Microcontroller (Microchip Microcontroller , Xilinx FPGA , FreeRTOS)

OTHER WORK EXPERIENCE

Madrigral Industries, Pasto, CO: Development engineer (6 hours/week) Jan 2019 – Jun 2019
- Development of the control system for the different automatic packaging machines based on PLC and arduino systems
- Replacement and adaptation of the control and communication system for an imported automatic packaging machine

Remington University Corporation, Cali, CO: Adjunct Instructor (6 hours/week) Nov 2022 – Dic 2022
- Cybersecurity Seminar - Pentesting

ACHIEVEMENTS

Scholarships (Univalle) Aug 2014 – Dic 2016
Scholarship for Master and Doctorate studies
Academic incentives (Univalle)
Recognition that the Universidad del Valle Universidad del Valle gives each semester to the best averages
- First place in the seventh semester
- Fourth place in the tenth semester