Jessye DOS SANTOS

Embedded Software Engineer

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in @jessyedossantos   ⬡ github.com/jdossantos38/resume.git

EDUCATION

Engineering Degree

Polytech Grenoble

Hardware and Software for Embedded Systems
Options: automation, signal and image processing

SEPT 2010 — AUG 2013

Ph.D Degree

Grenoble Alpes University

Mathematics and Software
Subject: Wireless Sensor Networks and Privacy

NOV 2013 — AUG 2017

EXPERIENCE

APR 2013 — AUG 2013

Final Year Project

CEA, LITEN, Grenoble

Deployment of a monitoring system to evaluate and characterize battery pack ages of electrical vehicles.

Key words: CAN, reverse engineering, data collect and analyse, monitoring, shunt, VBA

NOV 2013 — AUG 2017

Security and Privacy for IoT

CEA, LETI, Grenoble

Proposing, development and deployment of a lightweight security and privacy software solution for Wireless Sensor Networks and IoT.

Key words: sniffer, 802.15.4, 6LoWPAN, security, embedded C, Python, real testbed

SEPT 2017 — JUL 2022

Assistant professor / Embedded software solutions

ESTIA, Bidart

Research, development, teaching and management.
Software solutions to improve performances of sensors motes.
Deployment of dynamic Duty Cycle and task scheduler to enhance energy consumption of sensors.
Artificial Intelligence and decision algorithm for IoT constrained devices.

Key words: embedded C, OS Low Power, IoT, WSN, Python

SKILLS

IT	Virtual Box, GIT, Contiki OS, Linux, Raspbian, ZigBee
Hardware	MSP430, PIC, ARM, Raspberry PI, Arduino, SPI, I2C, CAN (reverse engineering), sensors, oscilloscope, AOP, wireshark, jtag, gdb, valgrind
Software	C, Python, Java, shell, GNU, C++, RUST, Ladder, GRAFCET
Network	6LoWPAN, ZigBee, IEEE 802.15.4, LORA, SIGFOX, BLE, OSI model, TSCH, IPv6, RPL, UDP, TCP, CoAP, MQTT
Security	AES, CBC, CTR, TLS, IPSec

MANAGEMENT

- 100 students
- 20 persons
- Planification
- Communication
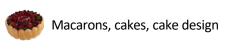- Conflict resolution
- Project management
- SCRUM/AGILE

MISCELLANEOUS

 Playing in a team

 Macarons, cakes, cake design

 Personal project: Photobooth, Home automation system

 Propose and organise events to collect fund for school