Jessye DOS SANTOS

Embedded Software Engineer

jessye.dossantos@gmail.com

@jessyedossantos

+336 71 73 70 05

github.com/jdossantos38/

SKILLS

IT	GIT/SVN, VirtualBox, ContikiOS, Linux, Visual studio, Eclipse
Hardware	BOSCH SRC, MSP, PIC, RPI, Arduino, CAN, ISOBUS, oscilloscope, AOP, wireshark
Software	C, CANoe, Vector, CAPL, Python, DTC, UDS shell, GNU, C++
Network	6LoWPAN, ZigBee, IEEE 802.15.4, OSI model, TSCH, IPv6, RPL, UDP
Security	AES, IPSec

MISCELLANEOUS

Playing in a team

Macarons, cakes

Collect fund for school Treasurer on association

Work experience

Embedded software engineer

AGCO *Mar 2023 – Present*

Specification, development and test of embedded software for tractor drive module.

Integration of FAN library into drive module for new tractor.
Implementation of Tractor Implement Management ISOBUS based solution.
BUGS resolution.
Test on table and on tractors.
Produce multi-brand, multi-platform code.
Work with team in Finland.
Redaction of specifications and documentations.

Key words: embedded C, BOSCH SRC, CAN, ISOBUS, CANoe, GIT, SVN

Assistant professor

ESTIA *Sept 2017 – Jul 2022*

Research, development, teaching and management.

Software solutions to improve performances of sensors motes.
Deployment of dynamic Duty Cycle using several parameters.
Artificial Intelligence for resource constrained nodes to detect plastic on the beach.
Decision algorithm embedded in sensors closed to process for Indutry4.0.
6LoWPAN WSN testbed.
Energy monitoring system.

Key words: embedded C, OS Low Power, WSN, Python, MSP430, CC2420, AOP

Security and Privacy for IoT researcher

CEA, LETI *Nov 2013 – Aug 2017*

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

Definition and integration of software Security and Privacy solution.
IEEE 802.15.4 WSN deployment based on ContikiOS.
Contiki-based sniffer as privacy analysis tool.
Analysing network performances in simulation and in real deployment.

Key words: dynamic pseudonyms, 6LoWPAN, embedded C, Python, wireshark, Openmote

Management

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

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