Benjamin Cathelineau

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Experience

SII, working at MBDA Le Plessis-Robinson, France

EMBEDDED SOFTWARE ENGINEER February 2024 - Present

- · Conception and Development of new features, rework of existing feature from legacy code, resolution of existing bugs, documentation
- Multiple embedded softwares in C++, using IBM Rational Rhapsody, interracting trough a Ethernet network and trough a 1553 bus

• Python, PowerShell, bash and Makefile automation of test, compilation and documentation

TIMA Laboratory Grenoble, France

EMBEDDED SOFTWARE AND SIMULATION ENGINEER (PHD CONTRACT)

October 2022 - January 2024

- Development of Simulink/MATLAB and SystemC (C++) (AMS/TLM) SoC (System-On-Chip) models
- Comparative evaluation of Cyber-Physical Systems simulation in Simulink and SystemC
- Restauration and rework of legacy C++ code, rework of legacy Makefiles

Université Grenoble Alpes, DLST

Grenoble, France

TEACHER January 2023 - May 2023

System and Programation Environment course for first year university student: Labs and in Class exercices

• Bash scripts, C programming basics and simple finite state machine modeling

TIMA Laboratory Grenoble, France

MASTER 2 INTERN

February 2022 - June 2022

• Parallel Simulation of Cyber-Physical/Embedded Systems models in SystemC (C++) • Restauration and rework of legacy **SystemC (C++)** code, rework of legacy **Makefiles**

Kayentis Meylan, France

ENGINEER ASSISTANT INTERN May 2021 - September 2021

- Automatic Response System PowerShell script
- Web Browser automation with **Python Selenium** for probing a Web Application
- Jenkins for automatically monitoring the Web Applicatino

Givaudan Vernier, Switzerland

INTERN April 2019 - July 2019

- Research and deployment of a **Ethernet network** monitoring solution (Advanced Host Monitor)
- PowerShell scripting for automation

Abissa Informatique Genève

Genève, Switzerland

INTERN July 2018 - August 2018

• Research and deployment of an IPAM (IP address management) solution (PhpIpam)

Skills

Programming C, C++, GDB, make, Python, Java

Tools IBM suite (Rational Rhapsdoy, EWM), VMWare WorkStation, VirtualBox

Systems Embedded Linux, VxWorks

Modeling and Simulation of Embedded Control Systems Simulink, SystemC-TLM/AMS, QEMU, Physical Modeling (Differential Equations)

> **Computer Networks** Cisco CCNA 1 and 2 (Ethernet, TCP/IP network expert), Wireshark

DevOps and Automation Docker, Kubernetes, git, Jenkins, Shell Scripts

Languages French (Mother Tongue), Fluent English (TOEIC 970, TOEFL 104)

Education

Grenoble INP - Ensimag and Université Grenoble Alpes

Grenoble, France

MASTER OF SCIENCE IN INFORMATICS AT GRENOBLE - DISTRIBUTED COMPUTING: FROM CLOUD TO EDGE COMPUTING, EMBEDDED SYSTEMS AND NETWORKING

October 2021 - June 2022

• Obtained a PhD scholaship based on academic achievements

Grenoble INP - Ensimag

Engineering Degree - Information systems engineering

Grenoble, France

September 2020 - June 2022

Université Savoie Mont Blanc, exchange with Montana State University

BACHELOR - COMPUTER NETWORKS AND TELECOMMUNICATIONS

Bozeman, Montana, USA August 2019 - May 2020

IUT Annecy - Université Savoie Mont Blanc

University Diploma of Technology - Networks and Telecommunications

Annecy, France

September 2017 - June 2019