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SUMMARY

blablabla yocto

EXPERIENCE

ASTROCAST S.A. *03.2021-06.2022*

SENIOR SOFTWARE ENGINEER

- Firmware development in C on STM32 for low power satellite receivers
- Software architecture, requirements and documentation
- Hardware interface library development in C++
- Integration testing in Python
- Unit testing in C with hardware mock using fff and gMock
- Azure devops CI pipelines configuration and Azure cloud management
- Implementation of communication encryption and device security
- MAC layer development

ECOROBOTIX S.A. *09.2016-02.2021*

EMBEDDED SOFTWARE ENGINEER

- C firmware development on STM32 for an autonomous weeding robot
- C++ and Java software development for GPS-RTK positionning system
- GPU image processing using Cuda and OpenCV
- Linux ARM board configuration and kernel object development
- Set up robot remote monitoring and update tool (aws, ssh, websocket)

HEIG-VD, REDS *09.2013-09.2015*

SCIENTIFIC COLLABORATOR

- FPGA development and testing for a 100Gb/s compression platform
- Java development of Logisim, an open source electronic simulation software

DEPSYS *01.2013-08.2013*

EMBEDDED SOFTWARE ENGINEER

- Development of a monitoring software for smart-grid distributed power inverters.

Websocket communication with embedded Linux platform in Java

BOSCHUNG MECATRONIC *10.2010-09.2012*

EMBEDDED SOFTWARE ENGINEER

- Development of a firmware for airport weather sensors
- Firmware development in C on a dsPic32 using freeRTOS
- Real-time signal processing and low power management
- Product deployment and release management for France, Germany, Austria and Slovakia

ISMECA SEMICONDUCTOR MALAYSIA *10.2010-09.2012*

SOFTWARE TRAINEE

- Development of a real-time acquisition software (C & Labview)

EDUCATION

SCUM MASTER PSM1 CERTIFICATION *2022*

HES-SO, LAUSANNE *2016*

M.S IN COMPUTER SCIENCE (PART TIME STUDIES)

- Thesis about high resolution image processing acceleration in C++ using Cuda GPU and OpenCV.

HAUTE ECOLE D'INGÉNIERIE ET DE GESTION DE VAUD (HEIG-VD), YVERDON-LES-BAINS *2009*

B.S IN COMPUTER SCIENCE, EMBEDDED SYSTEMS

BOBST S.A., LAUSANNE *2004*

CFC (FEDERAL CERTIFICATE OF CAPABILITY) IN ELECTRONICS

Skills

Programming Languages	C | C++ | Java | Python | Labview
Software Development	Git | Jenkins | Azure Devops | Jira | Docker
Frameworks & Libraries	Cmake | gTest/gMock | ZeroMQ | Protobuf
Sys admin	Linux (udev, systemd, user-groups, iptables) | Ansible | Aws (EC2) | Azure cloud
Hardware Platforms	STM32 | ATmega | CUDA | Nvidia ARM platform | Altera FPGA
Languages	***Native:*** French ***C1:*** English ***B2:*** German