



ELECTRONIC EXPERT ENGINEER

16 years of experience in research and development , Electronic hardware and software. A cross cutting perspective combining control command, mechanical and hydraulic engineering and simulation , to serve yours projects.

EXPERIENCE

SOFTWARE EXPERT DEVELOPER R&D

October 2017 - October 2021

USINES CLAAS FRANCE S.A.S. - WOIPPY (57)

- Control command J1939 application for agricultural baler based on multi ECU - CAN bus.
- ⇒ Requirements analysis, specifications wrting, software development and validation.
- ⇒ Quadrant Evolution - Automatic Pressure Control - Bale density control, redign for improved sensibility, accuracy, response time and robustness.
- ⇒ Rollant & Rollant Uniwrap - Functional blocks design, hardware abstraction layer, software safety.
- ⇒ ISO11783 Vector CAN bus driver optimization, creation of an alternative library, diagnostic services standardization, automatic sensor calibration, HMI modernization.
- ⇒ Support of : production support and online testing, P.L.M., customer quality service, marketing -workshop and field validation - UCF Lead Engineer ISOBUS CLAAS representative.

EMBEDDED SOFTWARE DEVELOPER R&D

June 2014 - September 2017

ABYLSSEN - METZ (57)

- OSEK ISOBUS based application for the control of agricultural baler on Infineon XC2000 platform.
- ⇒ Software specification and development for the automation of tractor hydraulic functions and speed (generic application code, man-machine interface, validation) via ISOBUS (CAN).
- ⇒ Modular software architecture, optimization of existing code (data and code structuring, creation of common libraries), multi ECU structure, multi CAN bus.
- ⇒ Dynamic functional diagnostics on Rollant and Variant ranges - Development, tuning and support

AFTER SALES SERVICE MANAGER, COMPUTER SCIENTIST

October 2012– May 2014

GENERALE DES MATERIAUX - MARIGOT (971)

- Management of the Atfer Sales Service.
- ⇒ Implementation of a company web site.
- ⇒ Implementation of the software for the commercial management interface.
- ⇒ Management of the a rental park.

CO-FOUNDER, PROJECT MANAGER, DEVELOPER

June 2005 - September 2012

ACS - Toul (54)

- On specific requests from public or private customers, specification, design and implementation of projects in many fields application such as.
- ⇒ Electric vehicle 48V, renewable energy management (wind and solar), lifting bridge.
- ⇒ Optical sound capture, Ph and Ec measurement, power supply supervision, climate analysis and control.
- ⇒ Specifications, modeling, schematic design and routing, embedded and configuration software.
- ⇒ Research and management of suppliers (components and manufacturing), stock manage-

EDUCATION

MASTER ENGINEERING OF ON-BOARD ELECTRONIC SYSTEM

2003

Lorraine University - Nancy

BAC INDUSTRIAL SCIENCES AND TECHNIQUES-ELECTROTECHNICS

1998

Pierre Mendès France high school - Epinal (88)

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Driving license

vehicule

SKILLS

LANGUAGES

French ★★★★★
English ★★★★★☆

TOOLS

Visual studio
Visual studio Code
Tasking
Tasking VX-toolset
NETBeans
Qt
Altium Designer
MPLAB X
Vector
Team Server Foundation
SVN
Matlab

LANGUAGES & PLATFORMS



INTERESTS

CAR RESTORATION, CANI-CROSS, WEBSITE

www.sebcalvi.com