Adrien CHARDON

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cv.nodraak.fr/en.pdf

Adrien is a software and electronics engineer, with an expertise in embedded systems. He is interested in robots and space, and cares about automation, open source software and code quality.
He recently specialized in aerospace and is interested in launchers and inter-planetary probes.

Work Experiences

GMV
Since May 2019
Madrid, Spain

Embedded Software Engineer - Exomars and Sentinel 5

- Exomars cruise and descent modules: testing and validation of the GNC algorithms, coding, bug fixes and software quality metrics
- Exomars rover: interfacing the autonomous navigation libraries (CNES) with the rover platform (Airbus UK)
- Sentinel 5: application software managing the UVNS spectrometer
  - *Skills: embedded C, unit and integration and testing, software development standards (ECSS 40B, MISRA-C)*

ECE PARIS
2017-2018
Paris, France

Project Leader - Smallsat ECE3Sat

- Designed and built a nano satellite in order to study a new de-orbit technique using Earth's magnetic field
- Managed the team responsible for the satellite architecture and the on-board computer
- Implemented the on-board communication bus with CAN and ASN.1 to ensure a reliable communication between subsystems
  - *Skills: distributed architecture design, sizing and µcontrollers choice, team management and coordination*

ECE PARIS
2016-2017
Paris, France

Software Engineer - Robot Gali X

- Designed and built an autonomous robot for the French Robotic cup
- Designed a distributed architecture to allow easier reuse for the next robots
- Implemented a telemetry GUI to monitor the robot status
- Implemented a simulator to assess the performances (recompilation of ARM code for execution on x86)
  - *Skills: embedded C/C++, Python (telemetry GUI, software-in-the-loop simulation), CAN bus, ARM µcontrollers, Git*
  - *Video demo and source code available at* `https://cv.nodraak.fr`

FUTURE ELECTRONICS
May-August 2017
Paris, France

Intern

- Adapted the Mbed-os framework to the new PSoC 6 µcontroller from Cypress
- Implemented several peripherals such as GPIO, UART, Timer and Bluetooth BLE
  - *Skills: C++ interface, C drivers, ARM µcontroller, Git*

Education

2018 - 2019 **Advanced Master**, *TAS Astro: space systems design.*
ISAE-Supaero - Toulouse, France

2013 - 2018 **Engineering Degree**, *Majoring in embedded systems.*
ECE Paris - Paris, France

2015 - 2016 **Bachelor of Science**, *Electronics & IT.*
Aalborg University - Aalborg, Denmark

French **Native**.

English **Fluent**, *TOEIC: scored 935/990 in 2017.*

Spanish **Conversational**.

Hobbies

Learning and making — Software and robotics projects
Writing — Blog: `https://blog.nodraak.fr`
Playing — Kerbal Space Program

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