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

On-board Software Engineer - Exomars and Sentinel 5
- Exomars: GNC algorithms of the cruise and descent stages
- Sentinel 5: application software of the UVNS spectrometer
- Software development: features implementation, unit and integration tests, code coverage and quality metrics
- ○ *Skills: embedded C, 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*
- ○ *Source code available:* `https://github.com/Nodraak/Gali_X_Deoxys`

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