

# Adrien CHARDON

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📄 [cv.nodraak.fr/en.pdf](http://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  $\mu$ controllers 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  $\mu$ controllers, Git*
- Source code available: [https://github.com/Nodraak/Gali\\_X\\_Deoxys](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  $\mu$ controller from Cypress
- Implemented several peripherals such as GPIO, UART, Timer and Bluetooth BLE
- Skills: *C++ interface, C drivers, ARM  $\mu$ controller, 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