

KOJI ANDRIAMAHERY

CURRICULUM VITAE
(LAST UPDATE : NOV. 2022)

WORK EXPERIENCE

Hardware Systems Engineer

Stella Surgical | Jan. 2022 - present

- Established systems engineering methods (MBSE) and developed embedded systems in the field of medical devices and organ transplantation.
- Worked on process modelling, sensors integration and medical regulatory requirements.

Hardware Research Intern

LIRMM | Sept. 2021 - Jan. 2022

- Led a personal research initiative : Hand gesture recognition and bio-sensing for sign language interpretation.
- Worked on hardware architecture definition, MCAD/ECAD & firmware programming (Matlab, C/C++).

Assistive Technology Designer

HumanLab Saint-Pierre | Jan. 2021 - July 2021

- Developed an assistive robotic orthosis for children in collaboration with health professionals of Institut Saint-Pierre (paediatric hospital).
- Designed assistive technologies (ECAD/MCAD rapid prototyping, 3D printing / scanning techniques).

Data/AI Research Intern

Technische Universiteit Delft | May 2020 - Aug. 2020

- Developed a computational model of an ethical decision-making mechanism to incorporate moral uncertainty on autonomous vehicles.
- Analysed MIT's "Moral Machine" dilemma dataset using data-science techniques (Python, SQL).

Engineering Analyst (internship then full-time job)

Marianka | May 2019 - Oct. 2019

- Led feasibility and requirements engineering studies for product development in the healthcare field (seniors and mobility-impaired persons aid).

ABOUT ME

With an emphasis on healthcare, I am at ease within cross-disciplinary teams. My professional goal is to work for meaningful and challenging human-centered projects that can improve lives.

SKILLS

Hardware Systems Design

- CATIA V5 / Solidworks
- Autodesk Fusion 360
- Autodesk Eagle
- Capella (Arcadia)

Programming

- C/C++
- Python
- Matlab
- Linux

Soft Skills

- Founder and Lead Organizer of Alès (french city) first TEDx conferences (TEDxIMTMinesAles)
- Junior Enterprise student member
- Partnership manager of university Arts Bureau
- Languages : French (mother tongue), English (C1 level - TOEIC score : 970), Spanish (B2 level)

EDUCATION

MSc in ICT for Healthcare

Université de Montpellier, France | 2021 - 2022

Major : Health Devices Engineering

MEng in Systems Engineering

IMT Mines Alès, France | 2018 - 2022

Major : Mechatronic Systems

CONTACT

 +33 6 35 30 49 42

 koji.andria@e.email

 [ko-sinus.github.io](https://github.com/ko-sinus)

 linkedin.com/koji-andria