

Lucien RENAUD
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27 years old, Driving licence

Robotics Engineer

lurenaud.com



Education



Master of Science in Biomedical Engineering (MSc) - 2016

University of Dundee (UK) (imaging, prosthetics, surgical robotics)

Master Degree in Industrial Engineering - 2016

INSA (National Institute of Applied Science) – Blois (FR) Specialisation: Automatic Systems and Industrial Computer Science



DUT (equivalent HND) in Electronics and Industrial computing – 2013

Université Paul Sabatier Toulouse (FR)



Skills

Design

- Mechanical CAD
- Electronic CAD
- Electronic / mechanical integration

Manufacturing

- 4 axis CNC Mill / Lathe
 - Gcode Manual / CAM
 - Machine operation
- 3D printing SLA/FDM
- PCB manufacturing
 - BOM management
 - Hand soldering (BGA, TSSOP...)

Programming

- C, C++, Python
- Microcontroller: C et Assembly
- FPGA: VHDL et Verilog

Maintenance

- Update maintenance plan in pharmaceutical context (cGMP, GSK procedure)
- HVAC, Steam network, distilled water network...

Languages: English C2 (Fluent), Spanish A2

Technical Environment

Environments

- Pharmaceutical
- Robotics and Biomedical Research
- Aerospace
- Défense

Methodologies

- AMDEC, 6 sigmas
- TRIZ (Method for innovative design research)
- cGMP

Computing

SAP, MS Office suite, Linux, **SolidWorks**, Proteus, Matlab, Arduino, **Kicad**, **Raspberry Pi**

Professional Experiences



INRIA (Current)

Since august 2017, Nancy (FR)

Design and manufacturing of minimally invasive robot for archaeology exploration of the Khufu pyramid. And design experiments platforms for research purpose of the lab.

Results:

- Several working robots designed, made and tested in real conditions from scratch
- Improve manufacturing equipment of the lab
- Manage interns



GSK Vaccines (Mission)

2017, 1-year, Brussels (BE)

Creation and update of maintenance plans for EHS critical equipment from risk assessments (as a consultant from the company Assystem)

Results:

- Malaria and Hepatitis B vaccine production units secured
- Maintenance plans updated
- EHS critical equipment flagged
- P&ID drawings updated



NHS Tayside (Internship)

2016, 6 months, Dundee (UK)

Design and manufacturing of an emergency vitamin K filing system, for premature new born

Results:

- Prototype that demonstrates the feasibility manufactured



Airbus D&S (Internship)

2015, 4 months, Manching (DE)

Developing features for a parametric CAD software in C++ using Opencascade

Results:

- Support new aircraft fuselage structure elements in the software (door, beam, frames...)



ENAC (Internship)

2013, 3 months, Toulouse (FR)

Design and manufacturing of a device interfacing a PC and a TCVL (security equipment for aerial telecommunications) Mainly electronic design and manufacturing

Results:

- Delivered 5 fully functional interface