

Romain Tissot

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PhD graduate in robotics, specialized in AI and cable-driven parallel robots

EDUCATION

SALFORD UNIVERSITY

MSC IN ROBOTICS AND EMBEDDED SYSTEMS

Dec 2017 | Salford, UK

Merit

Cum. score: 70,67 / 100

- Real time operating system (RTOS)
- Mechatronics
- Mobile robotics
- Machine Learning AI

ESTIA

MENG IN ROBOTS AND

MOBILES

Dec 2017 | Bidart, FR

generalist engineering school specialized in mechanics, computing and electronics, this is also a trilingual course

COURSEWORK

GRADUATE

PID controller

Fuzzy Logic

AI Paradigms

Threshold Logic Units

Multi-layer perceptrons

Machine Learning

UNDERGRADUATE

Linear algebra

Analysis

Operating Systems

Unix Tools and Scripting

Functional Programming

Object-oriented Programming

ACADEMIC PROJECTS

UNIVERSITY OF SALFORD | MSC THESIS

Jan 2017 – Dec 2017 | Salford, UK

Worked with **Jean-Renel Suresse** to create **IDorm**

- Embedded sensors network with Xbee/Arduinos communication with C/C++
- Implementation of a Threshold Logic Unit (TLU), position and emergency situation recognition
- View generating position skeletons with a depth camera
- GUI with JAVA

UNIVERSITY OF SALFORD | MSC PROJECT

Sept 2016 – Dec 2016 | Salford, UK

Tracking system on a **Roomba** robot with embedded microcontrollers using sensor fusion allowing clever decision making with **Denis Mangoenpawiro**.

- Low-level programming on Microcontrollers
- Real time programming with C
- TLU - GUI programming
- Sensor fusion

EXPERIENCE

SMILE | SOFTWARE ENGINEERING

OPEN-SOURCE SOFTWARE DEVELOPMENT

February 2021 – June 2021 | Lyon, FR

- Java TMA

SOPRA HR SOFTWARE | SOFTWARE ENGINEER

DATA INTEGRATION

Mar 2018 – Jun 2020 | Paris, FR

- Jobs development with TALEND (ETL)
- JAVA external tools development for this ETL, program editing XML files
- shell scripting, UNIX, SQL, PL/SQL, Oracle, BI, Bitbucket, Jenkins

THALES | SOFTWARE ENGINEERING INTERN

ANDROID APP DEVELOPMENT FOR COLLABORATIVE

RADIONAVIGATION

June 2017 – Dec 2017 | Paris, FR

- GUI porting with mapping, embedded sensors for a mobile system, JAVA, XML, WinDev and JSON parsing
- Versionning with GIT

FRONTDOOR | SOFTWARE ENGINEERING INTERN

ANDROID APP DEVELOPMENT IN A START-UP

May 2016 – Aug 2016 | San Francisco, CA

- Android development

RESEARCH

INRIA

PHD IN ROBOTICS

Use of AI for the Analysis of a Cable-Driven Parallel Robot

Designed for Assisting Fragile Individuals

HEPHAISTOS team | supervisor : Jean-Pierre Merlet

sept 2021 | Inria, Sophia-Antipolis, FR

Assistance robotics

Cable-driven parallel robots

Interval analysis

Python, C, MAPLE

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PhD seminar, MOMI and 3IA seminar organizer

TEACHING

UNIVERSITÉ CÔTE D'AZUR

- Parallel programming (Polytech Nice)
- Augmented Reality (Polytech Nice)
- Système unix/shell (Université Côte d'Azur)

PUBLICATIONS

- [1] J.-P. Merlet and R. Tissot. A panorama of methods for dealing with sagging cables in cable-driven parallel robots. In ARK, Bilbao, June 2022.