Georges Nomicos

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EDUCATION

Master of Science (MSc) Human and Biological Robotics, with Merit Oct 2018 - Sept 2019
Imperial College London

Specialization: Machine Learning, Computer Vision, Robotics, Human Control and Learning, Brain Machine Interfaces, Computational Neuroscience
Thesis: Robot learning (Sim2Real) for a mobile base with a robot arm leveraging deep learning and reinforcement learning technologies, BICI and Dyson Robotics Research Labs

Bachelor of Engineering (BEng) Mechanical Engineering, First class honour Oct 2015 - Jul 2018
University of Birmingham

Specialization: Electrical Engineering, Materials Engineering, Thermodynamics & Fluids, Mechanics, Mechatronics & Control Engineering, Mechanical Design, CFD/FEA

EXPERIENCE

Automation Project Engineer Sept 2020 - Oct 2024
VHP SP (Oberthur Fiduciaire) *Ugchelen, Netherlands*

- Managing strategic capex projects on industrial automation, data analysis and IoT: gathering requirements, engineering solutions, defining scope, executing projects with suppliers and internal resources, commissioning and final delivery.
- Monitoring budget, scope, and planning: updating control documents, following planning and scope, reporting to management and leading update meetings.
- Contributed to process improvement on manufacturing lines: programming in our DCS environment for process control optimisation, integration of Keyence cameras for visual inspection, expanding track&trace system and more.
- Supervising junior engineers: guided projects on energy management solutions, DCS integration and mechanical design (CAD).
- Initiated the implementation of ISO 50001 (energy management) : followed the DMAIC process to set up measurements, indicators, a control strategy and an action plan.
- Developed data visualisation tools: created dashboards in Python with links to data sources such as SQL databases, industrial historian and industrial communication protocols (MQTT, Modbus, OPC UA).

Software developer Sept 2019 - Nov 2019
Wippit (3D Printing Startup) *London, UK*

- Software development in Python for the backend of the application.
- Resolved issues on the application user interface using wxpython for the user interface.
- Followed continuous integration and deployment, and version control practices with a team of developers.

Research Assistant Robotics Oct 2017 - Jul 2018
University of Birmingham, Medical Robotic Group *Birmingham, UK*

- Derived an analytical model and created a physical model in Simulink Matlab to analyse vibration of the tip of a robot.
- Implemented a computer vision algorithm to obtain the segmentation of a biological cell and programmed a controller in Matlab & Arduino for a robot with 6 actuators.

SKILLS

Tools	MS Project, DevOps, Visual Studio, Version control, Matlab, CoppeliaSim, Linux, CAD
Programming	Python, DCS & PLC, SQL, Web dev (Flask, Dash, SQLAlchemy), Deep Learning (Pytorch)
Language	**French** (native), **English** (professional), **Italian** (intermediate), **Dutch** (elementary)

SCHOLARSHIPS AND CONTRIBUTIONS

Imperial College London Oct 2018
Department of Bioengineering Bagrit scholarship for the Master of Science in Human and Biological Robotics

MARSS Conference Jul 2018
F. Sadak, M. Saadat, A.M. Hajiyavand and G. Nomicos, 2018, Vibrational Analysis During Cell Injection in ICSI Operation