Georges Nomicos

Arnhem, Netherlands

+33 6 34 04 01 09
georgesnomicos@gmail.com
LinkedIn Profile

EDUCATION

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

Modules: Machine Learning, Robotics, Statistics/Data Analysis, Human physiology, Medical Device Entrepreneurship, 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

Modules: 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 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 to key-users and maintenance.
- Monitoring budget, scope, and planning: updating control documents, checking planning and scope recurrently, writing reports to management, leading update meetings to ensure clear communication with project teams and stakeholders.
- Supervising interns: guided projects on energy management solutions, DCS integration, and mechanical design (CAD).
- Developed data visualisation tools: created a dashboard with dash plotly library in Python to visualise energy data and built an API to communicate time series data between the dashboard and an industrial historian.
- Contributed to process improvements: programming in our DCS environment (defining requirements with process engineer, testing in the field), integration of Keyence cameras for visual inspection and track&trace on production lines.
- Initiated the implementation of ISO 50001 (energy management) : followed the DMAIC process to set up measurements, indicators, a control strategy and an action plan.

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

- Implemented an algorithm in Python to prevent loading of multiple application instances by monitoring processes.
- Solved bug fixes on the application user interface programmed in wxpython.
- CI/CD and version control practices with a team of developers and creation of executable for the software application.

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 a segmentation of a biological cell and programmed a controller in Matlab / Arduino for a robot with 6 actuators.

SKILLS

Tools	Matlab, Visual Studio, CoppeliaSim, Version control, Linux, DevOps, CAD, MS Project
Programming	Python, DCS/PLC, SQL, Python libraries (numpy, pandas, opencv, pytorch, dash)
Language	**French** (native), **English** (proficient), **Italian** (intermediate), **Dutch** (elementary)

SCHOLARSHIPS AND CONTRIBUTIONS

Imperial College London *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