GEORGIOS GRYPARIS

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Education

MEng Biomedical Engineering, Imperial College London **Sept. 2016 – June 2020**
1st Class – 81% (Top 10% of Cohort)

Relevant Modules

- Year 4 – Computational Neuroscience (82%); Optimization (96%); Pattern Recognition (91%)
- Year 3 – Biomedical Instrumentation (79%); Control Engineering (98%); Digital Signal Processing (86%)
- Year 2 – Electrical Engineering 2 (93%); Programming 2 (91%); Medical Science 2 (80%)
- Year 1 – Electrical Engineering 1 (85%); Programming 1 (100%); Logic & Digital Systems (85%)

Academic Projects

- Artefact suppression in Deep Brain Stimulation (Individual – Year 4 – 82%)
  - Theoretical and experimental evaluation of linear and non-linear analog front end architectures
  - Multi-channel PCB designed using Altium to assess different suppression techniques
  - End-product is a low-power, high-performance artefact suppression module

- Perfusion Compression Bioreactor for 3D cell cultures (Group – Year 3 – 75%)
  - Design and realisation of high accuracy system applying strains to cultured cells
  - Implementation of digital valve box for perfusion control

- Smart Baby Buggy with obstacle detection for visually impaired parents (Group – Year 2 – 77%)
  - Implemented system for obstacle detection using ultrasound sensors
  - Constructed system conveying spatial information to user through vibrating motors

Teaching Assistant

- Developed teaching materials and assessments for the second year "Signals & Control" module
- Assisted in circuit design labs for the "Electrical Engineering 1" module

BSc (Hons) Mathematics, Imperial College London **Sept. 2009 – June 2013**

International Baccalaureate, Moraitis School Athens **Sept. 2007 – June 2009**

Research/Laboratory Experience

Bryson Lab (Dr Bryson, Massachusetts Institute of Technology) **July 2019 – Aug. 2019**

- Awarded the IROP Bursary (£4650) for a summer placement at MIT
- Data analysis for single cell RNA sequencing experiments using R
- Benchmarked machine learning pipelines for cell classification from transcriptomic data

Bio-Inspired Circuits & Systems (Dr Drakakis, Imperial College) **July 2018 – Aug. 2018**

- Design of low power device for measurement of picoamp range bioelectric signals

Interventional Imaging and Devices (Dr Dickinson, Imperial College) **July 2017**

- Investigated an impedance-based solution to positioning a vascular catheter relative to a metal stent

Professional Experience

Private Tutor – Freelance **Aug. 2013 – Aug. 2016**

- Full time mathematics and physics private tutor in Athens, Greece
- Taught students aged 12-18 both individually and in groups of up to five
- Prepared students for the IB and Panhellenic university entry exams as well as UCAS applications

IT skills

- Programming Languages: MATLAB, Python, C, C++, R
- Design Software: Simulink, Altium Designer, OrCAD PSpice, TINA
- Microsoft Office (Word, Excel, Power Point), LaTeX

Additional Information

- Language skills: Fluent English (C2), Intermediate French (B2), Intermediate German (B1), Native Greek
- Completed compulsory military service (November 2014 – July 2015)