THOMAS HOLLIS

Dual French/British Nationality
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github.com/PsiPhiTheta

Education

University of Toronto (2018-2020) Toronto, Canada
Master's Degree (MSc) in Applied Computing, (Current GPA:)
Current select modules: Bioinformatics, Topics in SE: Blockchains, Machine Learning & Data Mining

The University of Manchester (2015-2018) Manchester, UK
Bachelor's Degree (BEng, Hons) in Electrical & Electronic Engineering (GPA: 84.3%, equivalent to 4.0)
Select modules: Digital Systems Design II (96%), Mathematics (93%), C programming (88%)
Bachelor Thesis: Deep Learning Algorithms Applied to Blockchain-Based Financial Time Series (92%)

Hockerill Anglo-European College (2013-2015) Stortford, UK
International Baccalaureate (Result: 39/45)
HL - French (7) Physics (6) Maths (5); SL - English (7) Chemistry (6) Business (6); EE/TOK (+2)

Lycée Français Charles De Gaulle (2008-2013) London, UK
French AS Level (Result: A), GCSEs (Result: 5 A*, 4 A)

Work Experience

Electronic Engineer Intern at Airbus, MBDA (Summer 2016, Summer 2017) Stevenage, UK
Lead the summer placement team in missile electronics. Designed a comprehensive solution to power distribution architecture issues of defence systems. Details bound by the UK's Official Secrets Act (1989).

Laboratory Researcher at Institut J. Monod/CNRS & University Paris Diderot (Spring 2014) Paris, France
Team research in surfactant dynamics of Taylor Couette systems, data collection and scientific computing.

Publications

Fardin, M.A., Hollis, T. et. al. (2014) 'Flow instabilities in large amplitude oscillatory shear: A cautionary tale', *Rheologica Acta*, 53(12), pp. 885–898. doi: 10.1007/s00397-014-0818-7.

Languages & Software

English (Native – ILR level 5), **French** (Native – ILR level 5), **Spanish** (Professional – ILR level 3), **Italian** (ILR level 1)

Programming C, C++, Assembly, R, MATLAB, Simulink, Python, UNIX/Bash (Proficient)
Windows/Batch, VHDL, LabVIEW, HTML, BASIC, LaTeX, Java (Conversational)

Select Projects

HFCrypto	Innovative deep-learning trading algorithm for cryptocurrencies (in progress, Python/TensorFlow)
RainCrypto	Multi-cryptocurrency ticker system for Windows desktop environments (developed, in Rainmeter)
ESP-18	Line following robot embedded system using autonomous PID controller (built & developed, in C)
uClk	Alarm clock embedded system with automatic light and temperature recognition (developed, in C)
CloudLight	RF controlled smart-light cinematography prop (built, used in award-winning film by Flo Agostini)

Certifications & Awards

Bachelor Thesis Project Prize (1st of 250 classmates)
The University of Manchester
BCG Mentorship Competition Winner (top 5%)
Boston Consulting Group
Hackathon Participant
Google (2016, 2017, 2018), MLH (2017)
UK National Security Clearance (SC)
Security Vetting (Defence Business Services, MoD)
NI Engineering Leadership Scholarship
National Instruments
First Class Army Cadet
Royal Air Force
Certified Engineering Technician (EngTech)
Institution of Engineering and Technology (IET)

Interests: Blockchain, Machine Learning, Consciousness, Skydiving, Competitive Swimming, Baroque Piano (Grade 7)