THOMAS HOLLIS

Dual French/British National
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github.com/PsiPhiTheta

EDUCATION

University of Toronto (2018-2020) Toronto, Canada
Master's Degree (MSc) in Applied Computing, (GPA:)
Current select modules: Bioinformatics, Blockchain Engineering, 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 – 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 – 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.

SELECT PROJECTS

HFCrypto – Innovative deep-learning trading algorithm for cryptocurrencies (in progress, written in Python/TensorFlow)
RainCrypto – Multi-cryptocurrency ticker system for the Windows desktop environment (developed, written in Rainmeter)
ESP-18 – Line following racing bot using autonomous PID control and proximity sensing (built & developed, written in C)
uClk – Clock timer embedded system with automated luminosity and temperature sensitive alarm (developed, written in C)
CloudLight – RF controlled smart-light cinematography prop (built, used in award-winning film 'Similaires' by Flo Agostini)

LANGUAGES & SOFTWARE

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

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

AWARDS & CERTIFICATIONS

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)