THOMAS HOLLIS

Dual French/British Nationality
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github.com/PsiPhiTheta

Education

The University of Manchester
Bachelor's Degree (BEng Hons), Electrical & Electronic Engineering, 2015-2018 (GPA: 84%, top 10%)
Best modules: Digital Systems Design II (96%), Mathematics (93%), C programming (88%)
Bachelor Thesis: Deep Learning Algorithms applied to Forex Time Series Modelling

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

Lycée Français Charles De Gaule
French AS Level, 2013 (Result: A), GCSEs, 2013 (Result: 5 A*, 4 A)

Independent Online Courses (MOOC)

[Stanford] Machine Learning	(Coursera)	[Melbourne] Discrete Optimization	(Coursera)
[Princeton] Bitcoin & Cryptocurrency	(Coursera)	[MIT] Computer Systems Security	(Coursera)

Work Experience

Software Engineer at ComClever (August 2017 - September 2017)
Developed a machine learning solution for predicting optimal stock levels within the PrediStock project. The AI developed was a 3 layer, feedforward neural network with prediction correlation of 0.87.

Electronic Engineer at MBDA (June 2016, 2017 – August 2016, 2017)
Lead the summer placement team into missile electronics. Details are confidential and bound by the UK Government Official Secrets Act (1989) and a non-disclosure agreement with MBDA and the MoD.

Laboratory Researcher at Institut Jacques Monod/CNRS & University Paris Diderot (February 2014)
Independent research in hydrodynamics of Taylor Couettes, data collection and scientific computing.

Laboratory Assistant at Imperial College London (April 2012)
Carried out 1st year university practicals on pH buffer action and presented on Personalised Medicine.

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 – IRL level 5), **French** (Native – IRL level 5), **Spanish** (Professional – IRL level 3)

Programming C, C++, Assembly, VHDL, R, LabVIEW, MATLAB, Simulink, UNIX/Bash, Windows/Batch, BASIC, Python, HTML, WikiMarkup, LaTeX, Java.

Independent Projects

HFCrypto	Innovative deep-learning cryptocurrency trading algorithm (in development, in Python)
RainCrypto	Cryptocurrency ticker for Windows 10 desktop environment (developed, in Rainmeter)
Altfolio	Trading portfolio of ten alt-coin cryptocurrencies (developed, exchanges via Poloniex)
ESP-18	Line following robot embedded system, using PID control (built & developed, in C)
uClk	Alarm clock embedded system with automatic light and heat detection (developed, in C)
CloudLight	RF controlled smart-light (built, used by award-winning film director Florent Agostini)

Certifications

Engineering Leadership Scholarship
National Instruments

UK National Security Clearance (SC)
Security Vetting (Defence Business Services)

Hackathon Participant
Google (2016, 2017), MLH (2017)

Grade 7 Piano
Trinity College London

Powerboat Level 2
Royal Yachting Association

VHF Licence
Royal Yachting Association

International Certificate of Competence (ICC)
Royal Yachting Association

Sailing Level 3 (Catamaran, Windsurf, Funboat)
Fédération Française de Voile (FFV)

Duke of Edinburgh (Bronze)
The Duke of Edinburgh's Award

First Class Cadet
Royal Air Forces Association

Regional Standard Competitive Swimmer
The Amateur Swimming Association

Young Writers Creativity Award
Young Writers Anthology

Voluntary Work

Contributor at Gridcoin Research
2016 - Present

Co-founder & Script Doctor for Similar Mind
July 2016 – Present

Editor/Contributor at Wikipedia
May 2016 – Present

Event organiser for Gure Esku Dago
June 2015

75+ hours of volunteering at The IB
September 2013 - August 2015 (2 years)

Private tutor for The DofE & Bananamole
2012 - 2015 (3 years)