





# THOMAS HOLLIS

 Dual French/British Nationality

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[github.com/PsiPhiTheta](https://github.com/PsiPhiTheta) 

## Education

**The University of Manchester** (2015-2018) Manchester, UK

Bachelor's Degree (BEng Hons), Electrical & Electronic Engineering, (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** (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 Gaule** (2008-2013) London, UK

French AS Level (Result: A), GCSEs (Result: 5 A\*, 4 A)

## **Independent Online Courses (MOOC)**

[Stanford] Machine Learning (Coursera)

[Melbourne] Discrete Optimization (Coursera)

[Princeton] Bitcoin & Cryptocurrency (Coursera)

[MIT] Computer System Security (MIT OCW)

## Work Experience

**Software Engineer Intern at ComClever** (Fall 2017) Lille, France

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 a prediction correlation of roughly 0.87.

**Electronic Engineer Intern at 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 cryptocurrency markets (in development, in Python)

**RainCrypto** Multi-cryptocurrency ticker system for Windows desktop environments (developed, in Rainmeter)

**Altfolio** Trading portfolio of top 10 high-potential blockchain altcoin technologies (developed, via Poloniex)

**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

**BCG Mentorship Competition Winner (top 5%)**

Boston Consulting Group

**Hackathon Participant**

Google (2016, 2017), 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)*