

MICHAEL HICKMAN

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EDUCATION

Bristol University — MSc Wireless Communications and Signal Processing (2019 - 2021)

Achieved: Pass

Modules	Communication Systems	Network Protocol Principles	Digital Filters and Spectral Analysis
	Coding Theory	Mobile Communications	Digital Signal Processing Systems
	Advanced Radio Techniques	Radio Frequency Engineering	Broadband Wireless Communication
	Antennas		

Newcastle University — BEng Electronics and Computer Engineering (2016 - 2019)

Achieved: 2:1 (Higher Second-Class Honours)

Scholarship: School of Achievement EEE Scholarship, Awarded 2016.

Modules	Database Technology	Digital Electronics	Accounting, Finance and Law
	Computer Networks	Telecommunication Networks	Digital Signal Processing
	Circuit Theory	Engineering Mathematics	Programming I and II
	Automation and Robotics		

The British School AL Khubairat — Abu Dhabi, United Arab Emirates (2013 - 2016)

Achieved: Three A Levels Graded A - B

Subjects Mathematics A | Physics A | Chemistry B

WORK EXPERIENCE AND PROJECTS

Machine Learning with Python (2020)

Manipulated datasets containing the performance of basketball teams using the Pandas library. I implemented and applied various classification algorithms to determine which basketball teams were most likely to make it to the semi-final of a college basketball tournament.

Experience: Data Analysis | Machine Learning | Data Visualisation | Python

Resource Allocation in Mobile Edge Computing (2020)

Designed, developed and tested algorithms to assign computational and radio resources to a network of mobile devices. I applied the economic model of supply and demand and the double auction-based scheme to ensure efficient allocation of resources across the network.

Experience: Economic Analysis | Auction Theory | Discrete-Event Simulation | Algorithms

Bright Network Internship Experience (2020)

Project managed available resources to calculate the return of investment achieved by developing, testing, and releasing facial verification into a consumer banking app sign-in process. Lectures were provided by key representatives from world-leading firms Google, Bloomberg and Vodafone.

Experience: Project Management | Market Research | Agile Management

Design a Trading Robot in Python (2019)

Developed an automated trading robot that executes a strategy by detecting bullish candlestick patterns. The Coinbase Pro WebSocket feed provided the real-time data needed to successfully trade cryptocurrency.

Experience: Algorithm Design | Finance Technology | Design and Test | Python

VOLUNTEERING

IT Developer, Pin Your Thanks — London, United Kingdom (2020)

Developed scripts for the automation of onboarding and offboarding volunteers.

Football Coach, ProActive — Abu Dhabi, United Arab Emirates (2016)

Delivered weekly football coaching to teams of varied ages and levels.

Residential Project, Anou Grandi — Mauritius (2016)

Painted and constructed walls for an underfunded special needs school.

SKILLS, LANGUAGES AND CERTIFICATES

Programming Languages and Technology

Python | C++ | SQL | MATLAB | Java | Spark | VHDL | Assembly

Certificates

Bloomberg Market Concepts | Machine Learning with Python | Analysing Data with Python |
Technology Internship Experience | Complete Python Bootcamp | Duke of Edinburgh Gold Award |
PADI Open Water Diver's License | Coral Reef Conservation License | Piano Grade 5