

PERSONAL INFORMATION Alexe Ciurea



18 Chapple Hyam Avenue, Bishop's Itchington, CV472AF, United Kingdom

+447424656985

alexe.ciurea@gmail.com

[Linked-In](#)

Sex M | Date of birth 03 November 1986 | Nationality Romanian

SUCCESSFUL WITH **Power Electronics | Automotive | Deep Learning**
JOB APPLIED FOR **Technical Specialist**

Related skills

Electronics Design, LTSpice, PCB Layout Design, Altium, Worst Case Circuit Analysis, Failure Modes and their Effects Analysis, Fault Tree Analysis, Electrification, Power Converters, System Design, Standardisation, Requirement Decomposition, Technical Leadership, Project Management, MATLAB-Simulink, Machine Learning, Microsoft Visual Studio, Python, V-Cycle Development, FreeCAD

PERSONAL SKILLS

Communication	Public Speaking, Technical Communication
Languages	Romanian, English (C2), German (C1), French (A1)
Managerial	Project Management - APM Certification (apm.org.uk), Six Sigma, Lean Manufacturing
Computers	I build my own custom machine learning rigs.
Driving licence	Category AM, B1, B

WORK EXPERIENCE

- | | |
|----------------|--|
| 2018 – present | Power Electronics Subject Matter Expert
Jaguar Land Rover UK <ul style="list-style-type: none">▪ Technical Excellence Award for contributions to Jaguar Land Rover success▪ Electronics design and audit sign-off: successfully launched the new Land Rover Defender▪ Business process automation: savings of 3 full time-equivalent▪ Design optimisation: savings of approximately £6000 for JLR▪ Standardisation: Led a team of 7 experts to release the JLR power electronics design standard▪ Training: successfully trained management on electronics robustness during class-room sessions. Automotive Automation Electronics |
| 2018 – present | Machine Learning Engineer (PHD on-going)
Polytechnic University Bucharest – Medical Electronics <ul style="list-style-type: none">▪ IEEE Paper: Low Latency Automated Epileptic Seizure Detection: Individualized vs. Global Approaches doi: 10.1109/EHB50910.2020.9280267 Medical Deep Learning Electronics |
| 2015 – 2018 | Electrified Powertrain Engineer
Jaguar Land Rover UK <ul style="list-style-type: none">▪ Delivered the award-winning Jaguar I-PACE charger with best in class power to weight ratio▪ Researched new wireless EV charging systems for future projects in context of SAE J2954▪ Designed automated charger test benches and test methods▪ Delivered charging time simulations with MATLAB-Simulink. Automotive Automation Electronics |

- 2012 – 2015 **Engine Control Units Development Leader**
Renault Technologie Roumanie
- Awarded for a new test method that reduced execution time by 10% and improved accuracy by 90%
 - Delivered a new, 10% more economical Engine Control Unit for 1.5L and 1.6L dCi engines.
- Automotive | Automation | Electronics
- 2011 – 2012 **Manufacturing Quality Engineer (part time)**
WNS Global Services Romania
- Awarded for improving yearly profits by 35% by process optimisation and automation
- Business Process Outsourcing | Automation | Manufacturing
- 2012 **Software Development Apprenticeship (part time)**
CitySync Ltd. UK (now known as Image Sensing Systems)
- Delivered a road traffic flow optimisation solution using Dijkstra routing and automatic number plate recognition cameras
- Transportation | Automation | Electronics

EDUCATION AND TRAINING

- 2020 **Further Education**
Coursera
- Deep Learning Specialization, Credential ID C87332AWAAGS
- 2015-2017 **Post-Graduate Courses (part-time)**
Warwick University, Warwickshire, UK
- Advanced Test Techniques
 - Robust Automotive Electronics
 - Control Systems
- 2010-2012 **Master of Engineering Degree – Intelligent Transport Systems** UK NQF Level 7
equivalent
- Polytechnic University of Bucharest – Transportation, Remote Control and Electronics
- Artificial Intelligence
 - Intelligent Transport System Architectures
 - Operation Research Algorithms
- Participated at Research Conferences ITS 2011 and ITS 2012
Grade average: 10/10 points
- 2005-2010 **Bachelor of Engineering Degree – Electronics and Telecommunications for Transport Systems** UK NQF Level 6
equivalent
- Polytechnic University of Bucharest – Transportation, Remote Control and Electronics
- Electronics Design
 - Computer Science
 - Data Acquisition
- Grade average: 8.1/10 points