**Mr. Rama Krishna Aditya Bharadwaj Kolluri, MSc.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Address:** 6b, 48 Victoria Chambers, Tunstall, Stoke-on-Trent, ST6 6DW. Tel (mob): +44 7778327469 **Email:** [aditya.kolluri0@gmail.com](mailto:aditya.kolluri0@gmail.com) **LinkedIn:** <https://www.linkedin.com/in/rama-kolluri-krkab369>

### Profile

I am a Mechatronics Engineer and a Dynamic Technology Analyst bridging academia and industry through my dual role at Birmingham City University and ECAM Engineering. With expertise in AI implementation, digital transformation, and autonomous systems development, I bring a unique perspective to technical research that shapes practical governance frameworks. Passionate about translating complex technical solutions into impactful policy outcomes.

### Technical Skills

* **Machine Learning:** Open CV, TensorFlow, Open Agents.
* **Data Analysis:** Pandas, NumPy, Matplotlib, Sckit Learn
* **Certifications:** Agile PM, CMI, BCS BA, Effective Communications.
* **Languages:** Python, PHP, Java
* **Database Systems:** SQL
* **Version Control:** GitHub
* **Testing:** Selenium, Postman.
* **Simulation Software:** MATLAB, NI LabVIEW
* **Autonomous Systems:** Sensor Integration, Movement Control
* **Hardware:** Arduino, Raspberry Pi, Microcontroller Programming.
* **Project Management Methodology:** Agile

Achievements

* Secure First Place in the Robo Car Race during College Fest in November 2016 at Vishnu Institute of Technology, Bhimavaram, India.

### Work Experience

*17 July 2023 to 17 July 2025.*

**Knowledge Transfer Partnership Associate & Business Systems and Technology Analyst**, Birmingham City University & ECAM Engineering Ltd, Cheadle, Stoke-on-Trent, England, United Kingdom.

* Lead research-driven digital transformation initiatives, bridging academic theory with industrial applications through comprehensive digitalization projects.
* Develop and implement AI-driven solutions for manufacturing visibility, traceability, and process optimisation.
* Design strategic digital frameworks and data-driven systems for operational efficiency measurement.
* Conduct systematic analysis of industry challenges to enhance manufacturing systems and contribute to an academic knowledge base.
* Spearhead cross-functional teams in implementing digital transformation initiatives, fostering collaboration between academic and industrial stakeholders
* Transfer knowledge between university research and industry applications to drive innovation and strategic growth
* Analyse complex manufacturing systems to develop innovative technical solutions aligned with both academic research and business objectives

*February 2022 to June 2023.*

**Graduate Project Engineer**, DigitME2, University of Central Lancashire, Burnley, England, United Kingdom.

* Developed machine learning models for time series prediction in manufacturing processes
* Engineered automated testing frameworks using Python and Selenium
* Implemented data analysis solutions for manufacturing optimization
* Created robust web and mobile applications using PHP, MySQL, and Java

*July 2021 to September 2021.*

**Erasmus+ Traineeship**, Arab Academy for Science, Technology & Maritime Transport**,** Alexandria, Egypt.

* Conducted independent research on autonomous vehicle applications using MATLAB and Python
* Developed sensor integration systems for object detection and movement control
* Implemented machine learning algorithms for autonomous navigation
* Designed microcontroller-based solutions for vehicle stability and lane-following

## Education and Qualifications

*January 2020 - October 2021.*

**Master of Science in Mechatronics and Intelligent Machines,** (Distinction grade),

The University of Central Lancashire, Preston, United Kingdom.

* Multi-disciplinary course with current industry-required modules like IoT, AI, sensors, and Control Systems. Learned tools like MATLAB & NI LabVIEW.
* **MSc Project title**: Smart Planetary Rover with pedal rail alignment across wheels.
* **MSc Group Project title**: Development of a Piezoelectric energy harvester.

*September 2013 – May 2018.*

**Bachelor of Technology in Mechanical Engineering, (**2:2 equivalent grade),

Vishnu Institute of Technology, Bhimavaram, India.

* Learned basic engineering modules with core mechanical modules.
* **Btech Project Title**: Box Transfer Machine to transfer boxes for small-scale industries.

##### Certification & Strengths

* Agile Project Management Foundation & Practitioner.
* Chartered Management Institute (CMI) – Certified.
* BCS Business Analysis Practice.
* Effective Communicator.
* Continuous Learning Enthusiastic & Multi-Discipline Skilled.
* Dual role bridging academia (Birmingham City University) and industry/company (ECAM Engineering Limited)
* Experience in implementing AI-driven solutions and digital transformation
* Technical background in machine learning, data analysis, and automation
* Knowledge transfer expertise between research and practical applications