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| **Arpan Mitra**  MSc. Engineering Mathematics  BEng. (Honours) Mechanical Engineering | 115 Dovetail, Bristol, BS2 0GG.  0755 224 6648  [arpan.uon@gmail.com](mailto:arpan.uon@gmail.com) |

Fresh MSc Engineering Mathematics graduate with practical experience in Cyber Security related Data Science, extensive academic experience in mathematical modelling for stochastic and deterministic systems with a strong technical background having Honours degree in Mechanical Engineering.

**Education**

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| **MSc Engineering Mathematics** | **University of Bristol** | **Bristol,**  **United Kingdom** | **Feb 2022** |
| Completed MSc in Engineering Mathematics from the Department of Engineering Mathematics in February 2022.   * *Relevant Modules***:** Computational Neuroscience, Uncertainty Modelling for Intelligent Systems, Mathematical and Data Modelling, Partial Differential Equations, Computational Genomics and Bioinformatics Algorithms, Research Skills, Complex Networks 4, Intelligent Information Systems, Introduction to Artificial Intelligence, Engineering Mathematics III. * *Dissertation Topic:*Interpretable Anomaly Detection for Cyber Security; Blackbox interpretation through techniques such as SHAP. | | | |
| **Bachelor of Mechanical Engineering (Honours)** | **University of Newcastle (Australia)\*** | **Singapore Campus** | **Aug 2020** |
| Completed the degree course of Mechanical Engineering with Honours in August 2020.   * *Relevant Modules:* Mechanical Engineering Projects, Computational Mechanics, Mechanical Engineering Design, Transport Phenomenon, Automatic Control, Computer Aided Engineering and Manufacturing, Applied Engineering Thermodynamics, Computer Aided Engineering and Manufacturing, Engineering Economic Analysis, Mathematics for Engineering, Science and Technology, Managing Engineering Projects, Materials Science and Engineering, Engineering Economic Analysis. * *Final Year Project Topic:*Formulation technologies of Water based coating system infused with Graphene as interior decorative paint on various substrate at Aum Vision Pte Ltd (Corporate Office at Coleman Street, The Adelphi, Singapore 179803) as a part of their data driven approach to eliminate defects. (75)   *\* University of Newcastle (UoN) is an Australian University in Newcastle, NSW with a campus in Singapore. I attended this course at the Singapore Campus.* | | | |
| **International Baccalaureate** | **Symbiosis International School** | **India** | **2012 - 2014** |
| Awarded the IB Diploma with 34 points and 83% average marks, with 89% in Mathematics High Level (HL), 79% in Chemistry High Level (HL) and 81% in Physics High level (HL), 88% in Environmental Science (SL)     * **Subjects Studied - English, French, Environmental Systems and Societies, Mathematics HL, Physics HL, Chemistry HL** | | | |

**Relevant Work Experience**

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| **Trainee Engineer (Internship)** | **Win Auto Parts Burma (Remote work from Singapore)** | **Singapore** | **June 2020 – August 2020** |
| * Responsibilities included Engineering design tasks on SOLIDWORKS and Auto-Cad. Programming on Python, MATLAB, and C++. Creating Engineering documents on Word, Excel, and PowerPoint. | | | |
| **Trainee Engineer (Internship)** | **AUM VISION** | **Singapore** | **Nov 2019- March 2020** |
| * Formulation technologies of Water based coating system infused with Graphene as interior decorative paint on various substrate at Aum Vision Pte Ltd (Corporate Office at Coleman Street, The Adelphi, Singapore 179803) as a part of their data driven approach to eliminate defects. * Responsibilities included conducting IEEE and EAUS quality standards testing on finished product for paint applications and manufacturing company. | | | |

**Other Work Experience**

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| **Cash Desk Team** | **Zara (Cabbot Circus Branch)** | **United Kingdom** | **June 2021 – August 2021** |

**Organizational Activities**

**Student Representative in Engineering School**

* Represented UoN in a trip to Wuxi, China at Wuxi University of Technology for student exchange program as a team leader. I was selected based on academic merit in 2018 for this trip
* Attended 3 school excursions and participated successfully in trip objectives

**Represented school in Model United Nations (MUN) conference as delegate from Symbiosis International School**

* Participated MUN as a delegate representing Burkina Faso in UN Security Council In 2014

**Charity Work**

* Teaching as part of **TEACH FOR INDIA** **Charity** in 2014 – Taught mathematics for 3 months to Class 8 and 9 students
* Active member of the **Red Crescent Society** in 2013
* Music for Charity – Played as a guitarist and vocalist for fund raising event in 2013. Raised approximately INR Two Hundred Thousand in the event which was donated to **HelpAge India Charity**

**Interests**

* Sports – Basketball, Chess. Represented School in Basketball as captain.
* Reading – Varied subjects and current affairs
* Music – Play and learn guitar

**Other Information**

GRE Score – 325 (appeared in Aug 2019); IELTS Score – 8.5 (appeared in Sept 2019) – Grade C2