

Christopher Ash | R&D Engineer

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Portfolio: <https://tinyurl.com/CAshportfolioENG>



A detail-oriented, organised and diligent R&D engineer who enjoys designing and building systems. Highly curious, always willing to learn and adapt to overcome any challenges faced and always holds integrity and ethics above all else.

WORK EXPERIENCE

Sept 2023 – May 2025	Student Researcher <i>Artificial Intelligence Application Lab at Kyungpook National University</i> Conducted research in time series analysis prediction using AI (Python/ Pytorch) Assisted with the translation of research and documents from Korean to English Assisted with the review of research papers submitted to AUTCON and EAAI journals
Sept 2020 – Nov 2021	R&D Engineer <i>The University of the West Indies, Trinidad</i> Responsible for research, design and development for an Autonomous Disinfection Robot and an Air Disinfection Unit Implemented the Motor controller for a Disinfection Robot on an Arduino and the Sensor and Actuator system for an Air Disinfection Unit on a Raspberry Pi
Nov 2019 – Oct 2020	Research Assistant <i>The University of the West Indies, Trinidad</i> Worked on Real Time Fault Tolerant Control research paper for Dr Craig Ramlal Ran tutorial classes for Controls and Instrumentation I course
July – August 2018	Intern <i>FASOVE</i> Set up the programming environment for and worked on an Educational Robotics Kit
June – July 2017	Research Assistant <i>Electrical and Computer Engineering Department at UWI St. Augustine, Trinidad</i>
August 2016	Assistant Auto Electrician <i>Manilal's Auto Garage</i>

EDUCATION

Sept 2023 – August 2025	MSc. Robotics and Smart Systems Engineering, AI and Safety Convergence (Double Major) <i>Kyungpook National University</i> GPA – 3.9/4.3
Sept 2015 – July 2019	BSc. Electrical and Computer Engineering <i>The University of the West Indies, Trinidad</i> First Class Honours GPA – 3.73/ 4.3

PUBLICATIONS

KICEM Annual Conference, 2024

Conference Paper: Air Pollution Spread Prediction and Risk Assessment - A Sequential Transfer Learning Model for Air Pollution Prediction in Data Scarce Regions

VOLUNTEER EXPERIENCE + ACTIVITIES

2024 - 2025	KNU International Exchange Club Member
2018 – 2019	Engineering Student Society Secretary at UWI St. Augustine
2015 – 2019	Student Liaison for Electrical and Computer Engineering Department
January 2019, 2018 and 2017	Instructor at Engineering Programming Workshops
2013 – 2015	Chess Club President at St. Stephen's College

SKILLS

- Korean (TOPIK Level 4 - Intermediate level)
- Proficient in C/ C++, Python and Pytorch
- Experienced with popular microcontrollers (Arduino, Raspberry Pi, PIC)
- Capable Leader
- Amateur Audio/ Visual and Streaming Technician
- Amateur Graphic Designer and Video Editor

ACADEMIC ACHIEVEMENTS

2022	Global Korea Scholarship Winner, Trinidad and Tobago
2019	Winner of iGovTT HACKTT App Development Competition – Project Manager of Group
2019	Faculty of Engineering Dean's Honour Roll at University of the West Indies St. Augustine, Trinidad
2018	Board of Engineering of Trinidad and Tobago Bursary recipient
2015	Trinidad and Tobago National Scholarship – Natural Sciences
2014, 2015	Top CXC CAPE Unit I and II Student (Male) at St. Stephen's College, Trinidad