

# DARREN PNG

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## EDUCATION

### Singapore Institute of Technology – Technical University of Munich

Aug 2022 - Present

- Bachelor of Engineering with Honors in Electronics and Data Engineering  
Relevant Modules: Semiconductor Fabrication, Internet of Things, Data Analytics

### Republic Polytechnic

Apr 2017 - Apr 2020

- Diploma in Electrical and Electronic Engineering  
Relevant Modules: Electronic and Semiconductor Materials, Nanotechnology Applications, Thin Film Technology, Wafer Fabrication and Packaging

## RELEVANT PROJECTS

### Singapore Institute of Technology – Machine Learning Project

Sep 2024 – Oct 2024

#### *Injection Moulding Process Prediction*

- Implemented and evaluated Random Forest, Decision Trees, SVM, and AdaBoost for classification based on 12 process parameters.
- Used Recursive Feature Elimination (RFE) to optimize features, reducing dimensionality and improving performance.
- Presented insights and recommendations based on data-driven findings.

### Republic Polytechnic - Final Year Project

Apr 2017 - Apr 2020

#### *Wearable tracker device for people with intellectual disabilities (PwID)*

- Led a team of five in the design and development of a wearable tracker prototype for children with Down syndrome, including the creation of a functional database system and a proof of concept.
- Utilized JSON, Java, and Firebase for real-time data management and storage.
- Developed an Android application as part of the prototype

## WORK EXPERIENCE

### Assistant Camp-In-Charge, PeopleUp (Part-Time)

Jun 2022 - Present

- Managed up to 60 campers daily, mediating disputes and attentively addressing individual needs, including dietary restrictions and medical conditions, to ensure a safe and positive camp environment.

- Adapted plans for up to 7 daily activities, ensuring smooth operations during unforeseen circumstances across 20 successful camps, resulting in enhanced camper engagement and satisfaction.

#### **Admin Support Assistant, SAF (National Service)**

Sep 2020 - Jul 2022

- Maintained confidential databases for up to 3,000 SAF officers and provided administrative support for the enrolment and result updates of over 30 officers per month during biweekly training programs.
- Handled over 10 complaints and queries weekly in a professional manner, resulted in prompt resolution and maintaining a positive relationship with stakeholders.

#### **ICA Officer, ICA (Internship)**

Apr 2019 - Sep 2020

- Conducted physical safety checks (approximately 200 visual inspections daily) to ensure the safety of personnel.
- Utilized engineering technology, including vehicle and cargo scanning systems, to detect counterfeit items and facilitate the fast, accurate clearance of passports.
- Provided friendly and professional advice to customers, addressed safety concerns and offered guidance on security protocols.

### **Co-Curriculum Activities**

#### **Diploma in Electrical and Electronic Ambassador, Republic Polytechnic**

Apr 2017 – Apr 2020

- Organized events including a 24km night cycling event, Interhall Games, and Sports Day events.
- Planned and led a soldering workshop with 50 participants with 100% turnout rate, focusing on skill development and successful implementation

### **SKILLS**

- Microsoft Office: Word, Excel, PowerPoint
- Computer Languages: Python, C++
- Data Analytics: Python (Pandas, Matplotlib)
- Database System: Oracle, SQL
- 3D Modelling: AutoCAD
- Simulation: MATLAB

### **Languages**

- English (Spoken and Written)
- Chinese (Spoken and Written)

### **Certificates**

- Google AI Essentials Jun 2024
- AI4I – Literacy in AI Jun 2024
- bizSAFE Level 2 (Risk Management) Course Apr 2018