

# ADITYA PRAWIRA

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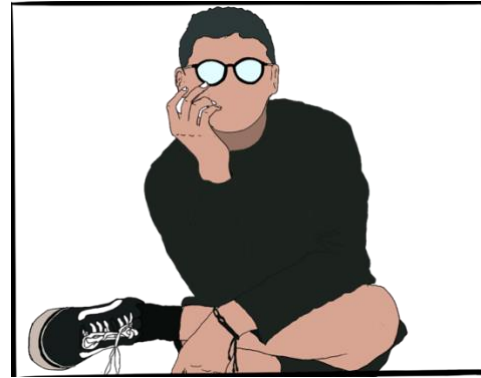
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**My website:** <https://adityaprawira.herokuapp.com/>

**My music website:** <https://azuregazemusic.herokuapp.com/>



## Objective

### Mechanical Systems Graduate Engineer

Master's student specialized in Robotics and Mechatronics Engineering. Dedicated to learn and improve autonomous systems to reduce human interaction in manufacturing complex designs.

## TECHNICAL SKILLS

**Programming languages:** C++, C, Java, JavaScript, Python, MATLAB, Dart, R, and C#

**Development Tools/Platforms:** ExpressJS, ReactJS, React Native, Flutter, MongoDB, MySQL, EJS, REST APIs

**Report/Documentation:** draw.io, Microsoft Word, Excel, and PowerPoint.

**Engineering Tools:** AutoCAD, Fusion 360, SOLIDWORKS, ABB RobotStudio, NI Lab View, Simulink, MATLAB, and Arduino

## EDUCATION

### Master of Engineering (Robotics and Mechatronics Engineering)

Royal Melbourne Institute of Technology (RMIT) University | 07/2020 - Present

#### Relevant Courses

- Risk and Project Management
- Research Method in Engineering
- Innovation and Technology Management
- Advanced Robotics Systems.

### Bachelor of Science (Mechanical Systems)

University of Melbourne | 07/2017 - 07/2020

#### Relevant Courses

- Systems Modelling and Analysis
- Foundation of Computing
- Engineering Computation
- Object-Oriented Programming
- Real Analysis
- Complex Analysis

### International Baccalaureate

Sekolah Pelita Harapan Sentul City | 2014 - 2017

#### Relevant Courses

- Math HL
- Physics HL

## EXPERIENCE

Music Producer (Azure Gaze) - Distrokid | Apr 2020 - Present

- Produces monthly EP and Single
- Reach approximately in total of 19, 044 listeners

Student Mentor - Sekolah Pelita Harapan Sentul City | May 2015 - Jun 2015

- Science's teacher assistant in managing science class teaching schedules, activities, and assignments
- Support new upcoming students in summer camp program.

## PROJECTS

Unimelb B-SCI Course Planner React Web App Project (Planar Project) | Nov 2020 - Present

- Collaboration project in developing web app application utilizing University of Melbourne's Bachelor of Science program courses related to any chosen major taken a student.
- A course planner that implements a flow chart system operation (JavaScript, HTML, CSS, and ReactJS).
- Utilize REST principal in accessing the University of Melbourne's Bachelor of Science courses and majors (e.g. accessing subjects API data).

#### Monthly Music Single/EP | Apr 2020 – Present

- Produce and release a Single/EP project each month
- Received offers to be promoted by several musical blogs and labels

#### Personal Portfolio React Web Project | Dec 2020 – Jan 2021

- Develop an interactive personal portfolio with ReactJS platform

#### Artist Express Web App Development Project | Oct 2020 – Dec 2020

- Build an ExpressJS web app, by utilizing HTML, EJS(Embedded JavaScript), CSS and JavaScript.
- Develop and manage front-end and backend client server.
- MongoDB Atlas (NoSQL database) is utilized as the web app's database to store registered users/owners, reviews, albums.

#### A Two-Level Tower Game | May 2020 – Jun 2020

- Developed by Java and bagel library
- Utilize OOP, UML, and mathematical modelling for motions.

#### Warman Project | Mar 2020 – May 2020

- A team of 4 that build a competitive autonomous device to compete in Warman Competition 2020 (Arduino, SOLIDWORKS, & Fusion 360).
- The device was appreciated and predicted to win the competition or at least secure top 5 position. (assessed and presented to professional engineers)

#### Rainfall cycle | May 2019– Jun 2019

- Develop data structure and algorithm to simulate climate change data analysis (utilize C programming language)
- Utilize statistical analysis on annual rainfall cycle and Kendall's tau model for trend analysis
- Data representation to plot climate change based on analysed data.

#### Drone Delivery Path Optimization | Apr 2019 – May 2019

- Simulate drones data of drones delivery path with C programming language
- Integrate mathematical modelling to calculate battery consumption depending on the package that is being delivered by the drone.
- Implement the mathematical modelling to develop data structure and algorithm to find, sort and present delivery path that consume the least amount of battery

#### Art Exhibition | Jul 2016 – Mar 2017

- Develop 7 artworks (2 sculptures, 3 paintings, and 2 photographs) to be exhibited in Sekolah Pelita Harapan Sentul City's art exhibition event

## VOLUNTEER EXPERIENCE

#### Secondhand Product promoter | Mar 2016 – Mar 2016

- Sold secondhand products on Pulau Pramuka Island.
- Collect funds to be donated for the poor.
- Social interaction and activates with citizens in the island

## CERTIFICATES

#### PLC Fundamentals - PLCdojo | Feb 2021

- Certificate of completion of PLC fundamentals course held by PLCdojo, awarded by Paul Lynn.
- Develop an ladder logics for pump systems with RXLogix to be implemented to a MicroLogix 1100/1400 and an HMI

#### Microservices with NodeJS and React - Udemy | Jan 2021

- Certificate of completion of Microservices with NodeJS and React course held by Udemy, awarded by Stephen Grider.
- Developed a simple Ecommerce Microservices web app application with JavaScript, TypeScript, MongoDB, Docker, and Kubernetes

#### The Complete 2020 Flutter Development Bootcamp with Dart - Udemy | Jan 2021

- Certificate of completion of The Complete 2020 Flutter Development Bootcamp with Dart course held by Udemy, awarded by Dr. Angela Yu
- Develop multiple hybrid mobile applications (develop IOS and Android mobile app in one programming languages) with Firebase database, Object Oriented Programming, and Dart programming languages.

#### Golden Coin Awards – Sekolah Pelita Harapan Sentul City | Mar 2016

- Award bestowed upon a group that achieved highest sale in Business Marketing Project in Pulau Pramuka, held by Sekolah Pelita Harapan

## LANGUAGES

- English.
- Indonesian.