

## CONTACT

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## EDUCATION

### Software Engineering Immersive

Program at General Assembly,  
December 2019 – March 2020

- 1000+ hours learning front and back end programming, working independently and in groups to design and build projects

**Advanced Diploma of Electrical Engineering – Automation** – GPA 3.9/4  
RMIT, 2014

**Diploma of Electrical Engineering**  
RMIT, 2013

**Baccalaureat Professionnel Electrotechnique** - Lycée du Parc de Vilgénis - France, 2002

## TECHNICAL SKILLS

|            |             |            |
|------------|-------------|------------|
| JavaScript | React       | HTML5      |
| CSS3       | jQuery      | Ruby       |
| Node.JS    | RESTful API | PostgreSQL |
| Raspberry  | MQTT        | Mosquitto  |
| Node-Red   | Git         | Express.JS |
| Sinatra    | OOP         | SQL        |

## LANGUAGES

**English: Fluent**  
**French : Fluent**  
**Portuguese: Basic**

# PHILIPPE TOME

## Software Developer

From Electrician to Automation and Robotics Engineer to Software Developer my quest for knowledge is rarely satisfied. The more I learn about technologies the more I want to learn about technologies. I thrive for challenges and constant learning. I am passionate about technologies, digitalisation and optimisation.

## PROJECTS

[Tic Tac Toe](#) | A personalised Tic Tac Toe game where the user can take a selfie to set as an avatar to play against his/her friends or choose from 9 fun preselected avatars with special sound effect associated with them.

- Utilises Video stream to take player's photo
- Created with HTML, CSS, JavaScript

[myCRM](#) | A CRM application to create service reports by Engineers for their clients. 3 roles (IT, Manager and Engineer) each with a different set of permissions to create/read/edit/delete records.

- Full CRUD application including the ability to change password
- Created with HTML, CSS, Ruby, PostgreSQL
- Encrypted user password using BCrypt

[Flash Zoo](#) | For our group project we made Flash Zoo, a Single Page learning application from English to 3 different languages using flashcards. Worked simultaneously on the same application in a group using Trello and Agile techniques to organise our work.

- RESTful API, MVC, Server-side API
- Unsplash and Yandex APIs for translations and images
- Created with Node.JS, HTML, CSS, Express.JS, PostgreSQL, Axios, Express

[Smart-Home-Hub](#) | Fully open-source and privacy-friendly Home Automation Hub project to control and program everything possible in the home from one central place without having to use any third party or cloud services.

It allows the user to switch ON/OFF lights, control house temperature, switch off all lights automatically when no one is home, security camera which takes photos automatically when someone approaches less than 10 cm from the front door and send it to your email address, a smart lock that unlocks automatically when any of your electronic devices are within range of the Bluetooth or the Wi-Fi network.

- Hardware used: Raspberry Pi 3b+, Pi camera V2, ESP8266 Wi-Fi relays, ultrasonic sensor HC-SR04, temperature and humidity sensor DHT-11, Raspberry Pi 7" touchscreen, RGB LEDs, blue and red LEDs, hole breadboard, RPI GPIO extension board, jumper wires
- Software/Technology used: Debian, Node.JS, Node-Red, MQTT, Mosquitto, Bluetooth, Email, Tasmota, Wi-Fi

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## WORK EXPERIENCE SKILLS

|                            |                   |
|----------------------------|-------------------|
| A Grade Electrical Licence |                   |
| PLC                        | Ladder Logic      |
| Structured Text            | Statement List    |
| HMI                        | SCADA             |
| Robot: Kuka, ABB           | VSD               |
| FAT                        | SAT               |
| Troubleshooting            | Technical Support |

## HOBBIES

Brazilian Jiu-Jitsu  
Literature

# PHILIPPE TOME

Software Developer

## 📁 WORK EXPERIENCE

**Service Engineer** | Scott Automation & Robotics

Aug 2018 – Present

Successfully upgraded an old fully automated rock laboratory in a gold mine in WA. The task was to bring down the contamination level from 30 ppm to below 5 ppm all while not losing any speed performance. Liaised with Engineers all across Australia and New Zealand to redesign some parts of the machine, the flow of events and re-write a large part of the program. The limited shut-down time of only 2 weeks meant everything had to be designed, manufactured, tested and shipped before this. The project was a huge success, completed with a result of 99% of samples below 3 ppm and lead to a new multi-million dollar contract signed by the client.

**Control System Automation Technician** | Sage Automation

Jan 2016 – Aug 2018

Volunteered to commission a fully automated Sodium Cyanide sparge system in Ivory Coast which quickly became the hardest and most challenging project ever undertaken in my career as I managed a team of underqualified people in a very difficult situation. Internally I was dealing with cross-cultural communication issues and learning on my feet. I became an agile leader, comfortable with ambiguity and flexible and adaptive. Motivating a team who were hostile to change to do night shifts, and ultimately delivering the project only 2 days past the deadline.

**Service Technician** | Aggreko Power Generator

Sept 2011 – Jan 2016

Lead and delivered many small to medium projects all across Australia on very tight deadlines multiple times. I learnt that autonomy in my work and an employer who values and entrusts me to complete tasks is essential to my performance and happiness at work.