

# Carlos Joco Gumanay

jocogum10@gmail.com

(+63) 917-756-7614

274 Sto Nino Street, Hipodromo Cebu City, Philippines, 6000

<https://www.linkedin.com/in/carlos-joco-gumanay/>

<https://github.com/jocogum10>

## Work Experience

### Pilot Development Engineer

TMX Philippines, Inc.

April 2017 – Present

MEZ 1, Lapu-lapu City, Philippines

- Ensures the successful transition of new products (quartz analog and digital watches) from development stage to a qualified mass-produced status.
- Ensures product design manufacturability by: initiating the review of product and process design; lead the cross-functional team in the development and in the piloting activities (line set-up, tool debugging, and process qualification); generate/release/update product and process documentation of the new product.
- Other responsibilities aside from the pilot project; I was also responsible for test and measurement of watches that have Bluetooth and GPS functionality/capabilities. Currently, I am tasked to develop a desktop GUI application using Python that communicate to Bluetooth enabled devices to retrieve data to store in a database using MySQL.

### Process Engineer

TMX Philippines, Inc.

May 2015 – March 2017

MEZ 1, Lapu-lapu City, Philippines

- Ensures that the parts produced conforms to the manufacturing quality standards by maintaining or improving and documenting the capability of the process.
- Provides supervision/guidance of assembly line process/equipment support personnel that ensures optimum operating conditions of the production and non-production machines, tools, and equipments.
- Addresses any issue regarding rejected parts by defining possible rework procedures and disposition of parts depending on the non-conformance/reject.
- Define and maintain the process documents of the matured models (Process Flow and Control Plan, Work Instructions, Visual aids, etc.)

## New Product Development Projects

### Pilot Development Projects:

- Timex Expedition Solar Project
  - Successfully lead the piloting, product qualification, and launch volume production of the watch which is a quartz analog watch with a solar charging functionality.
- Timex Expedition Combo Project
  - Successfully lead the piloting, product qualification, and launch volume production of the watch with both quartz analog and digital functionality.

- Timex Men/Women Ironman Transit Project
  - Successfully lead the piloting, product qualification, and launch volume production of the men's and women's digital watch.
- Digital Module Internalization
  - Process internalization of an existing product (on-going)

## Programming Projects (Personal Development)

- Python GUI Bluetooth Scanner
  - A python program that scans for nearby Bluetooth devices by using the BLED112 USB dongle and bglib module, and then displays the scanned devices on a GUI program that was built using the tkinter module.
- Python Text Editor
  - A python program that resembles a simple text editor (open, edit, and save file with a '.py' extension), with added run button that spawns a new process and then display the output on a second text widget that simulates as the output stream of the 'run' command.
- Arduino Temperature Monitoring
  - A temperature monitoring project that uses the Arduino as the microcontroller that establishes serial communication with the Adafruit SHT31 temperature/humidity sensor, and Grove LCD RGB backlight.

## Skills

- Basic knowledge of quality control standards, manufacturing processes, assembly methods, tooling and production equipment
- Practical competency in project management, and effective communication skill
- Basic programming in Python, C, LabVIEW, HTML, and CSS

## Educational Attainment

College: University of San Carlos – Technological Center  
Bachelor's Degree in Electronics and Communications Engineering

High School: University of San Carlos – North Campus

Elementary: Hipodromo Elementary School

## Personal Details

Date of Birth: October 10, 1992

Gender: Male

Marital Status: Single

Nationality: Filipino

Languages Known: English, Filipino, Cebuano