

International Internship Program

Prepared by Titoma Design Ltd.

Titoma (www.titoma.com) is a Western managed electronic product design firm operating in Taiwan and China, working for clients such as Logitech and ABB.

To foster international cooperation Titoma and UNAL will engage in various activities, most tangibly in the form of internship opportunities, involving training in Colombia and Taiwan for selected students.

At a high level, Titoma will train, test and offer an internship for UNAL pre-selected candidates, who will then return to Colombia for full time work in electronic product development with Titoma in its, to be established, Colombian entity.

1. Engineering student profile

- Electronic Engineering students of 8th, 9th or 10th semester
- Eligible for an internship, and with no impediments of international travel.
- Curricular and extra-curricular activities around:
 - MCU (8, 16, 32 bits) FW development
 - Digital HW development
 - C, C++ development
 - Strong logic / algorithm development skills
- Academic average of 3.8 or higher (Negotiable if engineer has strong background in all the above)

2. Engineering student selection – Colombia – 1 month

3 to 5 candidates will be selected to undergo the training program in Colombia and Taiwan. The selection process consists of:

- UNAL professors screening
- Titoma email / Skype interview
- Titoma test case

3. Engineering student training – Colombia – 1 month

To prepare the students for the internship the selected candidates will undergo a basic training in Colombia consisting of:

- Introduction to product development process and interactions
- Principles and good practices of PCB design
- Use of Altium Designer / Circuit works for PCB development
- Principles and good practices of FW development
- Use of MPLABX and Keil uVision for MCU development
- Workshops using development boards

- Other specific points might be added during the course of the program.

This training will be offered by Titoma Design either face to face or remotely via Skype, online training / testing, or workshops. The training materials, both digital and physical will be provided by Titoma Design.

4. On the Job Engineering student training (Internship) – Taiwan – 6 months

Upon satisfactory completion of training and testing period in Colombia, the selected engineer(s) would travel to Taiwan for a 6 months internship with Titoma in Taipei.

Engineer student would work under Titoma's Senior Engineers in a variety of projects. In parallel, they will work on developing a HW, FW or SW tool to be used either for product development support or product testing. This development would be used as graduation project, and the student will need to write a report describing the project. Protection of Client's Intellectual Property is one of the hallmarks of Titoma, so Client confidential information cannot be detailed in the project report.

If engineer student performs as expected, he will be assigned to design an actual product for Titoma's customers (either HW, FW or SW), subject to the availability of a suitable project

Titoma will:

- pay for round trip flight ticket Colombia - Taiwan
- provide a monthly maintenance fee of TWD 27,000 (Taiwan's minimum wage is NT\$21,009)
- arrange the enrollment in Taiwan's national health insurance program
- arrange an internship work permit and visa
- help the engineering students in finding accommodation and transport to Titoma's offices

5. Engineering work – Colombia – 1 year

On completion of the Taiwan internship, engineers will return to Colombia both for graduation and to continue working with Titoma in Colombia.

Students taking part in the internship program will need to commit to work with Titoma upon their return to Colombia for a period of at least 1 year.

Titoma guarantees students will benefit from all assistance in accordance to the Colombian law.

Titoma is interested in the possibility of sponsoring Master's Degree programs for top performing engineers upon their return to Colombia. The exact details of these sponsorships would be discussed on a case-to-case basis between engineers and Titoma Design.