

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 work full time in electronic product development with Titoma in its 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)
- Good level of English

2. Engineering student training – Colombia – 2 months

Titoma will offer a 12-weeks course 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.

The students with outstanding performance during the sessions of this course will have the opportunity to participate in the selection process of the internship program.

3. Engineering student selection – Colombia – 2 weeks

3 to 5 candidates will be selected to undergo a 6-months internship with Titoma in Colombia. The selection process consists of:

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- UNAL professors screening
- Outstanding performance in the course provided by Titoma
- Titoma interview
- Titoma test cases if needed.

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

Upon satisfactory completion of training and testing period, the selected engineer(s) would be offered a 6 months internship with Titoma in Colombia.

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 could 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

5. Engineering work – Colombia

On completion of the internship, engineers with an outstanding performance will be offered a position as a Junior Engineer in Titoma in Colombia.

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

As an official employee of Titoma in Colombia, the engineer could have the opportunity to work for a period of time from our office in Taiwan.