

# Mario García

Robotist



## EXPERIENCE

### VIBEWRITE UG | HEAD OF RESEARCH

2013 - 2015 | Munich, Germany

- Creation of a state-of-the-art embedded miniature tracking system.
- Highly accurate trajectory reconstruction based on non-optical sensors for real-time applications.

### DIEHL CONTROLS | PROJECT ENGINEER

2008 - 2010 | Querétaro, Mexico

- Wrote, managed and maintained production specifications and manufacturing instructions for sub-assemblies of electronic boards.

## EDUCATION

### TECHNISCHE UNIVERSITÄT MÜNCHEN

MSC. IN ROBOTICS, COGNITION, INTELLIGENCE

2014 | Munich, Germany

- Thesis: *Robust Pose Estimation between Robotic Sensors with Gaussian Process Optimization* under supervision of **Dr Rudolph Triebel** and **Dr Ernesto Tapia**.

### INSTITUTO TECNOLÓGICO DE QUERÉTARO

B.ENG. MECHATRONICS

2008 | Querétaro, Mexico

- A nine-semester Engineering Program focused on the development of advanced automation processes and original manufacturing techniques.
- Thesis: *A Novel Semi-automated Assembly for Domotic Electronic Boards* supervised by **Dr Raul Ramirez**.

## RESEARCH

### INSTITUTO TECNOLÓGICO DE QUERÉTARO

NATIONAL MINIROBOTICS CHAMPIONSHIP

2008 | Querétaro, Mexico

Organized within a team of students the National Minirobotics Championship, which included the design, building and coordination of the competitions programs for the attending University teams.

### INSTITUTO TECNOLÓGICO DE QUERÉTARO

AEROZORROS

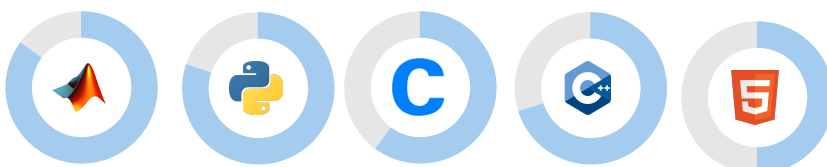
2006 - 2007 | Querétaro, Mexico

Founder and Captain of the Aeronautics Team of the University. Represented the country in international competitions during two years.

## AWARDS

- |      |   |  |                                  |
|------|---|--|----------------------------------|
| 2007 | 1 <sup>st</sup> place in aeronautic prototyping |  | São José Dos Campos (SAE Brazil) |
| 2007 | 2 <sup>nd</sup> place in aeronautic design      |  | Forth Worth, Texas (SAE USA)     |

## PROGRAMMING



## INVOLVEMENT

### ACADEMICS

- Robot Motion Planning
- Machine Vision
- Artificial Intelligence
- Open Source Software
- Advanced Machine Learning
- Scientific Computing
- Cognitive Systems
- Mechanical Design

### INDUSTRY

- Pattern Recognition
- Tracking Algorithms
- Applied Numerical Optimization
- Navigation Systems
- Advanced Manufacturing
- Technical Documentation
- Data Visualization
- Human-Machine Interfaces

## SKILLS

### Languages

- |         |       |
|---------|-------|
| Spanish | ●●●●● |
| English | ●●●●● |
| German  | ●●●●○ |

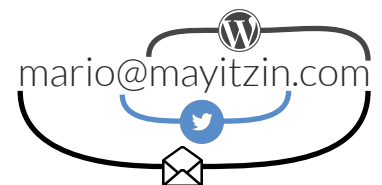
### Software Tools

- |            |       |
|------------|-------|
| Matlab     | ●●●●○ |
| LaTeX      | ●●●●○ |
| Git        | ●●●●○ |
| OpenCV     | ●●●●○ |
| Blender    | ●●●●○ |
| SAP        | ●●●●○ |
| SolidWorks | ●●●●○ |
| ROS        | ●●●●○ |
| Qt         | ●●●●○ |

## STALK ME IN

GitHub:// [mayitzin](#)

LinkedIn:// [MarioGarciaCruz](#)



## HOBBIES

