

# Alberto Isaac Barquín Murguía

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## Academic history

- 2014- **MSc. in Space Technology**  
University of Würzburg, Germany (1st semester)  
Luleå University of Technology, Sweden (2nd semester)  
Université Paul Sabatier Toulouse III, France (3rd semester)
- 2008-2012 **Mechatronics engineer**  
National Autonomous University of Mexico  
Faculty of engineering  
Thesis: *Implementation of a controller in a commercial quadrocopter*  
Developed custom firmware in C++ in order to implement both  
higher order sliding modes controller and observer in an AR Drone

## Professional experience

- September 2013-May 2014 **Brigadist at Lab for Mexico City**  
as part of the project Code for Mexico City, partner with Code for America. Worked on <http://www.verificalo.mx> a site that helps car users in Mexico City to fulfill their obligations
- August 2012-February 2013 **Computer technician**  
Part time job at Deportes Martí
- May 2012-November 2013 **Social Service**  
National Autonomous University of Mexico  
Mechanical Design and Technological Innovation Center
- 2007 **Internship**  
240 hours. Technical assistance department of  
Mexican National Petroleum Company (PEMEX)

## Languages

- Spanish:** Native
- English:** Advanced  
TOEFL IBT: 102
- German:** Advanced  
Last coursed level: C1

## Knowledge and technical skills

- Programming languages  
*Python, PHP, C/C++, C#*
- Operating systems  
*GNU/Linux, Windows*
- Mathematical software  
*MatLAB/Simulink. Maple*
- Other software  
*Git, OpenVPN, Office, SolidWorks*

## Volunteering and Personal projects

- As a volunteer renovated a school house at Skolgården, Skinnskatteberg, Sweden; planted crops and cared for animals at Liedtke Farm, Leipzig, Germany; receptionist at Fabrizio's Terrace hostel, Barcelona, Spain.
- Image processing and Computer vision: image compression with uneven pixels, generate images with genetic algorithms, face recognition, character recognition through a neural network, image improvement using Python.
- House automation system using a custom made HTTP server to control a house model through a microcontroller. Python and C++ used for programming.