

# KAREN LORENA POBLETE RODRIGUEZ

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## EDUCATION

Instituto Tecnológico Autónomo de México, Mexico City

**Masters in Computer Science (with thesis)** **06/2017**

Cumulative Grade: 92/100 (GPA 3.7)

**Bachelors in Computer Engineering (ABET accredited)**

**Bachelors in Telecommunications Engineering** **12/2015**

Cumulative Grade: 90/100 (GPA 3.6)

*Relevant Fields: Robotics (motion planning and decision making), Artificial Intelligence, Machine Learning, Data Mining, Software Development, CANSATs.*

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Java, VB.NET, LISP, Python. **OS:** Windows & UNIX / Linux. **RDBMS:** MySQL, Oracle, SQL Lite. **Others:** Matlab, R, Gazebo, LATEX, Unity, ROS, NAO robots, MS Office, SVN, Git.

## RESEARCH AND WORK EXPERIENCE (INTERSHIPS)

**BlueMessaging. Mexico City, Mexico.** 01/2014 - 12/2015 Research Intern: Designed a Dialogue Manager System for selling consumer packaged goods. Created UX tools in Java for grading user satisfaction of the system. Created utility tools in Python for REGEX and data management.

**Brain-Body Dynamics Lab. USC. California, US.** 06/2015 - 07/2015 Summer Intern: Implemented using Matlab and C++ muscle model library to be used in real time hardware simulations. [\[USC profile\]](#)

**Parasol Lab TAMU. TX, US.** 06/2013 - 08/2013 Summer Intern at Parasol Lab. REU program. Implemented group behavior strategies in C++ for multi-robot motion planning. [\[TAMU profile\]](#)

## PUBLICATIONS

- Delgado, J. A., Granados, E., Martínez, E. D., **Poblete, K. L.**, & Morales, M. (2017). Integrated Task and Motion Planning for Instances of Autonomous Driving. Poster in RSS 2017 Workshop on Integrated Task and Motion Planning.
- Cairó O. & **Poblete K.**(2015) KAMET II Conceptual Modeling Language, a Visual and Consistent Language Proved using Concept Algebra. Knowledge-Based and Intelligent Information & Engineering Systems, 19th, KES. Procedia Computer Science, 60, pages 45-54.

## LANGUAGES

Spanish (Native language), English (Fluent), Italian (Fluent), French (Advance).

## AWARDS AND LEADERSHIP

- National Academic Merit, Best Graduates of 2015, Asociación Nacional de Facultades y Escuelas de Ingeniería (ANFEI).
- Recipient of Excellence Scholarship for Academic Merit, Fall 2012, Spring 2013, Fall 2013 and Spring 2014.
- Team Leader. ITAM Robotics Laboratory since spring 2011 to December 2015.