Name:	**Erick Zetina Muciño**
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■ Education

Instituto Tecnológico Autónomo de México (graduation date: 12.2018)
Bachelor Mechatronics (GPA: 90/100)

Technische Hochschule Ingolstadt (Germany) as **International student**
Bachelor Mechatronik/Informatik (8.2017 – 08.2018)

■ Work experience

AUDI AG (2.2018 – 8.2018), (6.2019 – 12.2019)
Ingolstadt, Germany
Software development, Artificial Intelligence
- Training of a **neural network** (**GAN**) for the photo-realistic generation of images based on simulated data using **tensorflow**, that will be used to generate realistic scenarios to train autonomous agents using simulations.
- Implementation of **code improvements** and **bug fixes** for various projects in **C++** and **Python**, including a **tool** for the quality assurance of descriptors of road networks.

Koomkin S.A. de C.V. (9.2018 – 6.2019)
Mexico city, Mexico
Back-end development, Machine Learning
- Created a **REST API** to automatically **send WhatsApp messages** using **bots** that learned to handle business conversations based on a **convolutional neural-network** and **NLP** to support the Customer Relationship Management (CRM).
- Created a **call-tracking** system, to automatically make/record calls, and obtain transcripts from the conversations for further data-analysis.
- Development of a **web-application** in **Django** on an **Nginx** server for the bots.

Member of the ITAM Robotics Laboratory (08.2016 – 10.2018)
Mexico City, Mexico
Science Research Intern
- A scaled model of an **autonomous car** as bachelor **thesis** using **densenets (CNN)** (watch it in action overtaking moving obstacles in my **GitHub**)**.**
- Applications development with **ROS** (Robot Operating System) in **C++** for the control of distributed Processes.
- Implementation and improvement of algorithms of **artificial intelligence** in Self-localization methods using **OpenCV** and **Tensorflow**.

■ Awards

Torneo Mexicano de Robótica (TMR 2017)
Third place at the national level (04.2017)

■ Language skills

Spanish (mother tongue)
German (fluent)
English (fluent) (567 points. TOEFL)

■ Computer Skills

Software: **ROS, Tensorflow, Django, Nginx, Linux, Docker, Visual Studio, CMake, Git/SVM, Conan, Jira, Nx, Microsoft Office.**

Programming languages:	
C/C++, Python	**(3 years experience)**
Java, Matlab, Clisp, SQL	**(1 year experience)**
Javascript, CSS, HTML	**(6 months experience)**