

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)

Ingolstadt, Germany

Software development, Tools/Methods

- Development and training of a **deep neural network** to estimate depth and relative position **based on simulated data**, which was used to feed the audi's main neural networks for autonomous driving with data.
- Application of statistical methods for the **analysis of real and simulated images** of same scenes as basis for **improved transfer learning**.
- Simulation of **artificial environments**.

Schanzer Racing Electric eV (10.2017 – 12.2017)

Ingolstadt, Germany

Research intern in Autonomous Systems

- Creation of a labeling-helper GUI using classic **computer vision** algorithms to train our **convolutional neural network** to recognize paths made of traffic cones.
- Moved the old system for distributed computing to **ROS**.

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 **convolutional neural-networks** (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, Tensor Flow, Linux, Docker, Visual Studio, CMake, Git/SVM, Conan, Jira, Nx, Microsoft Office.**

Programming languages: **C/C++, Python**

Java, Matlab

Javascript, Clisp, VHDL

(3 years experience)

(1 year experience)

(6 months experience)