

# Gildardo Lozano Vega

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Mexican, 28 years old

## INTERESTS

Computer Vision: Image Processing, Pattern Recognition.  
Robotics: Visual Guidance, Autonomy, Path planning.

## EDUCATION

2007–Present **MSc. Vision and Robotics** (4<sup>th</sup> Term) Rank 8/33.

Erasmus Mundus Master Program  
Heriot-Watt University, Edinburgh, UK  
Universitat de Girona, Catalonia, Spain  
Université de Bourgogne, Le Creusot, France

**Description.** Master degree consisting of 120 ECTS. The master course aims to provide qualifications for entry into the professions in the area of robotics, computer vision, image processing and medical imaging. Topics such as Autonomous and Classic Robotics, Pattern Recognition, Image Segmentation, Medical Imaging Techniques, Image and Signal Processing, Computer Vision Systems and 3D digitization are covered.

**Thesis Project.** Project being developed in the University of Bristol. The aim is to explore and develop methods for topological mapping by using visual sensors. In particular to investigate the use of visual descriptors that are amenable to real-time implementation and that are robust to visual changes.

1997-2002 **Mechatronics Engineering.** (GPA 9.18 out of 10)

Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas  
IPN, Mexico  
Member of Academic Excellence Program of Instituto Politécnico Nacional.

**Description.** 5-year bachelor's degree that combines disciplines such as Mechanics, Electronics, Control and Computer Science.

**Thesis Project.** Visual Control Architecture of a Ball-Table System. The aim the project was to be able to control the position of a sphere of given mass set in the surface of a table, which had 2 degree of freedom by means of a vision system.

1994-1997 **Digital Systems Technician.** (GPA 9.40 out of 10)

Centro de Estudios Científicos y Tecnológicos No.3 - IPN, Mexico.

**Description.** High school studies with focus in physics and mathematics. Additionally, studies of digital systems and electronics are carried out leading to a technical degree.

## EXPERIENCE

- 2002 – 2007 **Sony de México S.A. de C.V.**  
Customer Satisfaction Division.  
Specialist Engineer (Supervisor). To manage projects focused on increasing customer satisfaction through improving product quality and repair service.
- 2001-2002 **CINVESTAV-IPN**  
Automatic Control Department.  
November 2001 to May 2002  
Assistant in Experimental Services Laboratory. To develop research projects of automatic control.

## LANGUAGES

Spanish. Native  
English. 85%. TOEFL 87 iBT  
French 15%. EST-IPN (Mexico), Alliance française (Spain)  
Japanese 10% . Asociación México Japonesa (Mexico)

## KNOWLEDGE

Software. Matlab, C/C++, Visual for Excel, AutoCAD, ANSYS, Visio, MS Office, Photoshop.  
Hardware. PLC's, Microcontrollers, Personal Computers.  
Six Sigma Projects Development (Green Belt Certified)  
Other. CNC programming, Assembler Language.

## SKILLS

Analysis Capability, Proactive, Supervision Capability, Organised, Ease for learning, Objectives Achievement, Team working

## COURSES

2004. Green Belt Certification. Sony de México.
2002. "Advanced Product Quality Planning". Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas - IPN

## REFERENCES

- Dr. Yvan Petillot, Heriot Watt University (UK)  
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- Dr. Fabrice Meriaudeau. Université de Bourgogne (France)  
Fabrice.Meriaudeau@u-bourgogne.fr, +33 (0) 3 85 73 10 77
- Dr. Robert Marti, Universitat de Girona (Spain)  
robert.marti@udg.edu, +34 972 418 494
- Dr. Walterio Mayol-Cuevas, University of Bristol (UK)  
wmayol@compsci.bristol.ac.uk , +44 (0)117-9545128