Anthony Remazeilles
6th October 1978, Saintes (17), France

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Computer Science Ph.D Engineer
Expert in Vision for Robotics

Areas of interest

Computer vision	Euclidean and projective geometry
Image processing	Real-time feature tracking, image matching and retrieval
Robotics	Visual servoing, vision-based navigation, mobile robotics, surgical robotics

Current Position

Since 2012   **Project Manager & Research Engineer** at Tecnalia Research & Innovation, San Sebastian, Spain
Assistive technology, Service Robotics, Surgical Robotics

Educational background

2004	**Ph.D Thesis in Computer Science**, University of Rennes I
2001	**Master of Science degree**, in Image and Artificial Intelligence, University of Rennes I
2001	**Engineer degree in Computer Science**, INSA (Institut National des Sciences Appliquées), Rennes

Professional experience

Since 2012   **Project Manager** at Tecnalia Research & Innovation, San Sebastian, Spain.
- Tecnalia Project Manager of the European project COGLABORATION
- Design of control laws for human-robot object interaction
- Tecnalia Project Manager of the European project STIFF-FLOP
- Design of control laws for flexible surgical robots
- Scientific valorization (1 workshop paper, 5 conference articles)
- Supervision (1 master)

2008-2012   **Researcher** at Tecnalia R&I, San Sebastian, Spain
- Design of a vision-based controller for powered wheelchairs
- Contribution to the development of a vision-based person detector for smart street lamps
- Contribution to the development of a vision-based extended audio-guide
- Contribution to a National project (FLUENT) on robotic arm control
- Contribution to National (SIMBOLO, ACROSS) and European (FLORENCE) projects on service robotics
- Scientific valorization (1 workshop paper, 1 article)

2006-2008 **Postdoctoral position** at CEA-LIST (Commissariat à l'Énergie Atomique), France
- Design of an unknown object stereo tracking method (patented)
- Development of scientific libraries (linear algebra, 3D Geometry, image processing, visual servoing, pose estimation) - 15 000 lines
- Contribution to the software design of a mobile robot with an embedded arm
- Technical and Clinical evaluation of the system
- Involvement in National (AVISO) and European (ITEA ANSO) projects
- Scientific valorization (4 conference articles)
- Supervision (3 Master of Science training stages)

2004-2006 **Teaching assistant** (ATER), Rennes. Teaching activity at INSA, research at IRISA (Institut de Recherche en Informatique et Systèmes Aléatoires)
- Teaching position in Computer Science Department (460 hours): functional languages, architecture, operating systems, network, student project supervision
- Design of real time point trackers suited to mobile robotic context
- Design of vision-based control laws
- Experiments on a robotic car
- Research supervision (two postdoctoral positions)
- Scientific valorization (8 International conferences, 2 journal papers)

2001-2004 **PhD Thesis in Computer Science**, IRISA, Rennes, France
Navigation à partir d'une mémoire d'images (Navigation based on a visual memory)
- Design of image processing algorithms and vision-based control laws
- Contribution to two National projects, PREDIT MOBIVIP and ROBEA BODEGA
- Research supervision (a Master of Science training stage)
- Scientific valorization (6 International and 3 National conferences)
  best paper award in Pattern Recognition within a National conference

2001-2004 **Teaching assistant** (Moniteur), University of Rennes I
- Computer Science License (192 hours): functional languages, imperative languages, operating systems

2000-2001 **Teaching assistant** (Vacations), INSA, Rennes
- Computer Science Department (40 hours): operating systems, operating systems tools

2001 **Master of Science Training Period**, IRISA
Couplage perception-action par appariement d'images et asservissement visuel
(Linking perception and action through image matching and visual servoing)
- Image retrieval, image matching and visual servoing study
- Design of a vision-based control of an articulated arm application

2000 **Training period**, Institut de Recherche en Informatique de Toulouse (IRIT)
Développement d'un serveur vocal (Design of a vocal server)
- Study of a dedicated language
- Design of an application related to cinema programmes in Toulouse

1996-2001 **Summer jobs**, SARL MEL-POM-PRIM (17)
- Fruits and vegetables sell on a market
- Supervision of the stand (three people) and goods

Technical and Linguistic skills	

Educational background	Computer Science Image processing, Computer vision Automation, Mathematics
Systems	DOS, Windows, Linux, Unix, Mac
Programming	Scheme, Pascal, asm language, C, C++, C# Java, Caml, Perl, Python, Latex, Matlab, javascript
Scientific	opencv, ros
Code Control	cvs, svn, git, bazaar
Languages	Fluent in English and Spanish

2010-2014   **Member of the Work Council** of Tecnalia R&I, representing the fusionned center Fatronik

2003-2004   **Treasurer** of a Ph.D student association at the University of Rennes 1 (ADOC)
- Supervision of association accounts
- Association valorization

1998-1999   **Responsible of the Programme for the Rock'n'Solex festival** (60 Keuros)
- Funding search
- Group search
- Contract negotiation

1998-1999   **Students event organization**, INSA, Rennes (around 400 people)
- Advertising
- Supervision of voluntaries (10 people)

1998-1999   **Voluntary Service in a radio**, Fréquence M, Rochefort, France
- Supervision of musical sequences

- Photo, music, travelling
- Professional website: `http://Anthony.Remazeilles.free.fr`

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