

Bingen Cortazar

M.S. Student in Electrical Engineering Department • UCLA

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EDUCATION:

University of California, Los Angeles (UCLA)

Master of Science in Electrical Engineering with emphasis in Physical & Wave Electronics.

Graduation: March 2015 (expected)

Universidad del País Vasco (UPV)

Engineer Degree in Telecommunications Engineering with emphasis in Communications.

Graduation: September 2011

Conservatorio Juan Crisóstomo de Arriaga, CAMM BEDMAR EMIB

Professional of Music Degree. Major: Piano

Graduation: June 2006

TECHNICAL SKILLS:

- Matlab
- Image Processing
- Signal Processing
- Machine Learning
- MS Office
- Adobe Photoshop, Adobe Lightroom
- Familiar with C, C++, OpenCV, Simulink, Mathematica and PSPice

RESEARCH EXPERIENCE:

Student Researcher for Professor Dr. A. Ozcan (UCLA)

Student Researcher, Computational & Image Processing Group

September 2013 – Present

- Researcher in several projects related to telemedicine and photonics field
- Develop Image Processing and Machine Learning related algorithms especially in projects related to biomedicine, health and environmental fields
- Google Glass experienced user

Student Researcher for Professor Dr. J.M. Ruiz Ojeda (UPV)

Student Researcher, Biomedical Signal Processing Group

November 2009 - September 2011

- Matlab Graphic User Interface (GUIDE) experienced designer
- Basic electronic hardware design for low frequency biosignals
- Analyze, generate, process and acquire electro-cardiogram signals (ECGs)
- Control and management of real ECGs data-bases
- Develop different signal processing algorithms to characterize the different rhythms of heart signal such as tachycardia, normal sinus rhythm, fibrillation or sinus bradycardia
- Multiple simultaneous signal acquisition & processing

- Familiar with data-acquisition devices (DAQs)
- Research on a friendly interface system which automatically generates, verifies and acquires an artificial ECG signal based on real ones taken from an external data base

PAPERS

- *“Immuno-chromatographic Diagnostic Test Analysis Using Google Glass”*, ACS Nano, February 2014

WORK EXPERIENCE:

Airbus Defence & Space

Engineer, Product and Quality Assurance Dept. (through RANDSTAD)

November 2012 – June 2013

Engineer SEPI Fellowship Intern, Product and Quality Assurance Dept.

November 2011 – October 2012

Relevant programmes:

- HISPASAT HAG1 DRA-ELSA Active Antenna (ESA Project)
- CSO Navant for LION-GALILEO Navigator Receiver

Main Activities:

- Responsible for Product Assurance (PA) activities in areas of design, qualification campaign, manufacturing and AIV
- Main interface and focal point for customers and sub-contractors concerning product assurance aspects
- Familiar with electronic units (MMICs, Hybrids, ASICs,...) and their related qualification tests (PIND, TID, RGA, DPA, SEM, Life Test, Thermal Cycling, Burn-in,...)
- Inspections of flight hardware: incoming/outgoing inspections, KIPs and MIPs
- Preparation of PA documentation for different space-project meetings: PCB, MPCBs, NRBs, MRRs, IRRs, TRRs, TRBs, DRBs
- Leadership and management of project meetings
- Identification, Follow-up and Management any non-conformances that appear during the process of design, test, qualification or assembly
- Review and research ECSS standards and ensure that PA requirements are met within the projects
- Exceptional interpersonal and team-work skills
- Verification of the requirements of compliance of the projects

HONORS AND AWARDS:

- Graduate Opportunity Fellowship Program recipient (UCLA), 2013-2014
- “La Caixa” Fellowship Award to accomplish graduate studies in the US, 2012
- SEPI Foundation Fellowship recipient, 2011
- First of the Class Award (UPV), 2011

- IDOM Award for Best Academic Records (UPV), 2011
- Colaboration in Research Fellowship for Student Researchers (Basque Country Government), 2011
- Honors at High School, 2006

COMMUNITY INVOLVEMENT:

- Member of PACMA animalist party in Biscay for Spanish Senate Elections, 2011
- Volunteer in animalist/ecologist group in Bilbao , 2009-2011

LANGUAGES:

- English (Fluent in reading, writing, and speaking)
- Spanish (Native level)
- Basque (Native level)