




## Personal Information

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<b>Nationality:</b> Spanish	

## Studies

Title of degree	Study Period	Location
<b>Telecommunications Engineering</b>	2009 - 2015	E.T.S.I.T University of Valladolid

## Diploma Thesis

Company/ University	Title	Abstract
<b>Daimler AG</b>	<b>Enhanced CAN test automation of connect-me and telematics features</b>	Internship at Daimler AG (Mercedes-Benz Technologic Center. Sindelfingen, 71063, Germany). Development of a CANoe simulation tool (programmed in CAPL) for vehicle testing, which is mainly oriented to the Mercedes connect me in-vehicle digital services. This tool is valid for the new telematics platform called HERMES. Performing tests mostly in a test-bench and also in real vehicles for its validation.

## Professional Experience

Company/ University	Location	Period	Description
<b>Daimler AG</b> <a href="http://www.daimler.com">www.daimler.com</a>	Sindelfingen (Germany)	01.08.2014 - 30.04.2015	<ul style="list-style-type: none"><li>▪ Final Project: Enhanced CAN test automation of connect-me and telematics features.</li><li>▪ Internship, Software development: Testing, validation and CAN programming especially focused on telematics features.</li><li>▪ Focus: CANoe, CANdela Studio, CAPL, CAN Bus, TCP/IP, UDP, Ethernet, GPS Simulator, GPSBabel, Google Earth, GSG StudioView and PuTTY.</li><li>▪ Sector: Automotive, telematics.</li></ul>



<b>University Of Valladolid</b> <a href="http://www.uva.es">www.uva.es</a>	Valladolid (Spain)	01.10.2013 - 15.06.2014	<ul style="list-style-type: none"> <li>▪ Research fellowship, collaborative researcher: Automation in the diagnosis of schizophrenia using image processing (EEG).</li> <li>▪ Focus: MATLAB ®, medical MATLAB toolboxes, image processing, ScienceDirect, Springer, IEE Xplorer and Web of Science.</li> <li>▪ Sector: Medicine, research.</li> </ul>
<b>Consejería de Educación- Junta de Castilla y León</b> <a href="http://www.jcyl.es">www.jcyl.es</a>	Valladolid (Spain)	01.10.2013 - 30.04.2014	<ul style="list-style-type: none"> <li>▪ Internship, WEB development: Design, build and implementation of a pedagogical virtual museum (WEB). URL: <a href="http://borimol.byethost12.com/MuseoVirtual/">http://borimol.byethost12.com/MuseoVirtual/</a></li> <li>▪ Focus: HTML, CSS, JavaScript, PHP, SQL, Adobe Dreamweaver CC, PHPMyAdmin, MySQL and Xampp.</li> <li>▪ Sector: Education, WEB.</li> </ul>

## Languages

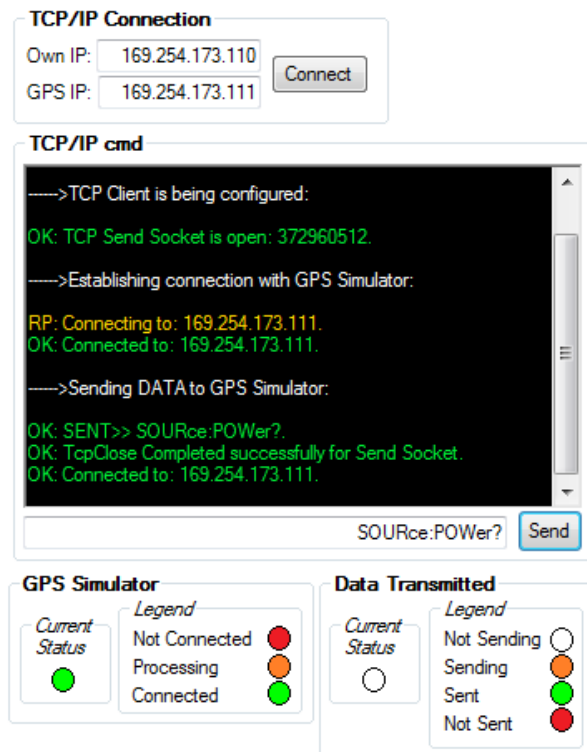
Language	Understanding	Speaking	Reading	Writing	Certificates
Spanish	Mother tongue	Mother tongue	Mother tongue	Mother tongue	
English	High	Medium	High	High	B1
German	Basic	Low	Basic	Basic	A1

## Extra-Curricular Activities

Date	Activitiy	Location
2014	<b>Aula Mercedes-Benz:</b> Telematics systems in vehicles with CANoe as tool and CAPL as programming language	Valladolid, Spain
2014	<b>Digital Marketing:</b> general knowledge, advertisements and SEO/SEM position. Course accredited by IAB Spain, a Google initiative	Valladolid, Spain
2011 & 2012	<b>Robotics:</b> Construction and programming of micro-robots able to follow linear patterns traced over the floor. Course by AMUVA	Valladolid, Spain

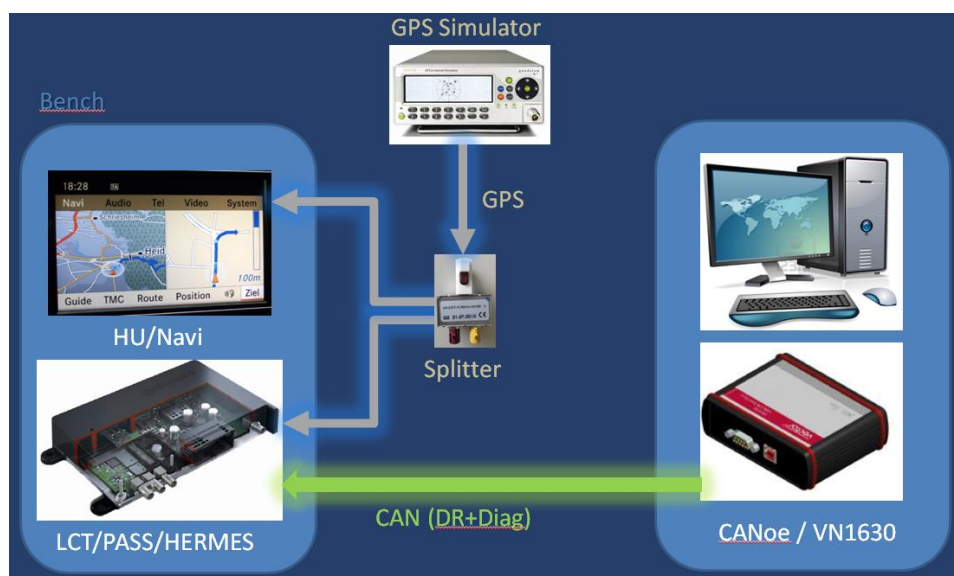
**CANoe Driver Simulator:** GPS simulator remote control (GSG-54 Spectracom: GPS 8-channel simulator).

## SCPI COMMANDS



The figure on the left side shows the main panel of the CANoe Driver Simulation tool. From this panel the user can set the TCP/IP connection between the GPS Simulator and the laptop. By this way the user can exchange SCPI commands from laptop to GPS Simulator and control it remotely.

## Stress testing:



Lab GPS test setup

The simulator generates and transmits a GPS signal through its Radio Frequency (RF) output port. Signal is then split into two separate receivers: one is the Head Unit or Navi and the other one is a Telematic Control Unit (PASS, LCT, HERMES), both inside the test bench. With a CANoe Simulation and a VN1630 device the user can introduce additional dead reckoning CAN signals to the bench as well read the decoded current location from the TCU.



### SAFETY AND SECURITY

E/R/I Call

Automatic Alarm Notification

Vehicle Locator

### FAMILY DRIVER MONITORING

Speed Alert

### IN-VEHICLE INTERNET

Internet Connectivity

### ADVANCED TRAVEL ASSISTANCE

Remote Information Feed In

### CONVENIENCE AND REMOTE ACCESS

Remote Door Lock/Unlock

Remote Start Engine

Rash Lights and Sound Horn

Remote Diagnostics

### VEHICLE ANALYSIS

Vehicle Identification

Vehicle Settings

HERMES Diagnostics

HU and IC

### CONFIGURATION

Configuration

### Service Calls Entries

0...19 20...39

N°	Type Service	Opening Date			Opening Time		Info
		Day	Month	Year	Hour	Minute	
0	RCall, Roadside Assistance	0	Unknown	2070	0	33	+
1	ECall manual, Emergency Call	0	Unknown	2070	0	33	+
2	ECall manual, Emergency Call	0	Unknown	2070	0	35	+
3	Remote Start	0	Unknown	2070	1	14	+
4	Remote Start	0	Unknown	2070	1	15	+
5	RCall, Roadside Assistance	0	Unknown	2070	0	7	+
6	Remote Start	0	Unknown	2070	0	22	+

StatisticsBB

Statistics: Service Calls Entries

ECall automatic/ACN, Emergency Call triggered by crash: 0

ECall manual, Emergency Call: 2

RCall, Roadside Assistance: 2

ICall, Information Call: 0

Read Stats Reset

### DEAD RECKONING

CAN Bus Menu

Wheel Front Left: Pulse Counter: Rx: 0 Tx: RPM: Rx: 0.0 Tx: Direction of Rotation: Rx: VOID Tx: VOID

Wheel Front Right: Pulse Counter: Rx: 0 Tx: RPM: Rx: 0.0 Tx: Direction of Rotation: Rx: VOID Tx: VOID

Wheel Rear Left: Pulse Counter: Rx: 0 Tx: RPM: Rx: 0.0 Tx: Direction of Rotation: Rx: VOID Tx: VOID

Wheel Rear Right: Pulse Counter: Rx: 0 Tx: RPM: Rx: 0.0 Tx: Direction of Rotation: Rx: VOID Tx: VOID

Other Signals: 1. Vehicle Yaw Rate Unfiltered (°/s): Rx: 0.000 Tx: 2. Brake: Rx: SNA Tx: IDLE 3. Reverse Gear: Rx: SNA Tx: DISENGG

Send

I/O Control Menu

Wheel Pulse Counter Front Left: 0 Wheel Pulse Counter Front Right: 0 Vehicle Yaw Rate Unfiltered (°/s): 0.000 Reverse Gear: Active Start

