



Personal Information

Name: Berta	
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Nationality: Spanish	

Studies

Title of degree	Study Period	Location
PhD Electrical Engineering	2011-Present	University of Texas - El Paso
Telecommunications Engineering Bachelor	2004- 2010	University of Valladolid

Professional Experience

Company/ University	Location	Period	Description
Mercedes Benz USA	Palo Alto, CA	May 2012-May 2013	Internship at Mercedes-Benz Research & Development North America, Inc. With the Head Unit NTG 4.5 COMAND Mercedes-Benz introduced Internet capability to its vehicles. MB Apps enables customers to access popular Internet services such as Google Local Search, Facebook, Yelp and others while driving. Focus of this internship is to support Quality Assurance for MB Apps that are developed externally and in-house.
Army Research Lab/ UTEP	El Paso, TX	Jan 2011-May 2012	Teaching Assistant for 'Electronics II', helping the students with Matlab, Proteus and PSpice. Researcher within an Army project on Ground Penetrating Radar, testing an algorithm to image subsurface layers and buried objects.
Management Solutions	Madrid, SP	Sep 2010-Dec 2010	Worked on a project for "Telefonica Internacional S.A.", I worked within a team of engineers to give advice about networks and systems use, development and management



McPhail Center/Michigan State University	East Lansing, MI	Oct 2009-June 2010	Student investigator in a project called "Development of system identification methods for assessing postural control in children with cerebral palsy". Simulation, analysis and study of signals, using EJS and devices such as gyroscopes and microcontrollers to obtain accelerations, caption measurement systems (kinetic/kinematic analysis) to track markers. Use of post-processing tools such as MATLAB and Excel for data analysis.
GMV S.A.	Boecillo, SP	Feb 2009- Aug 2009	Carried out SW Engineering to develop a module for optimizing work planning (travel) of a fleet of vehicles according to customer requirements, windows of availability of the customer and load management of vehicles. Use of several programming languages including C/C++/C#, Java, HTML, and Ajax.

Languages

Language	Understanding	Speaking	Reading	Writing	Certificates
Spanish	Mother tongue	Mother tongue	Mother tongue	Mother tongue	
English	Fluent	Fluent	Fluent	Fluent	TOEFL/GRE

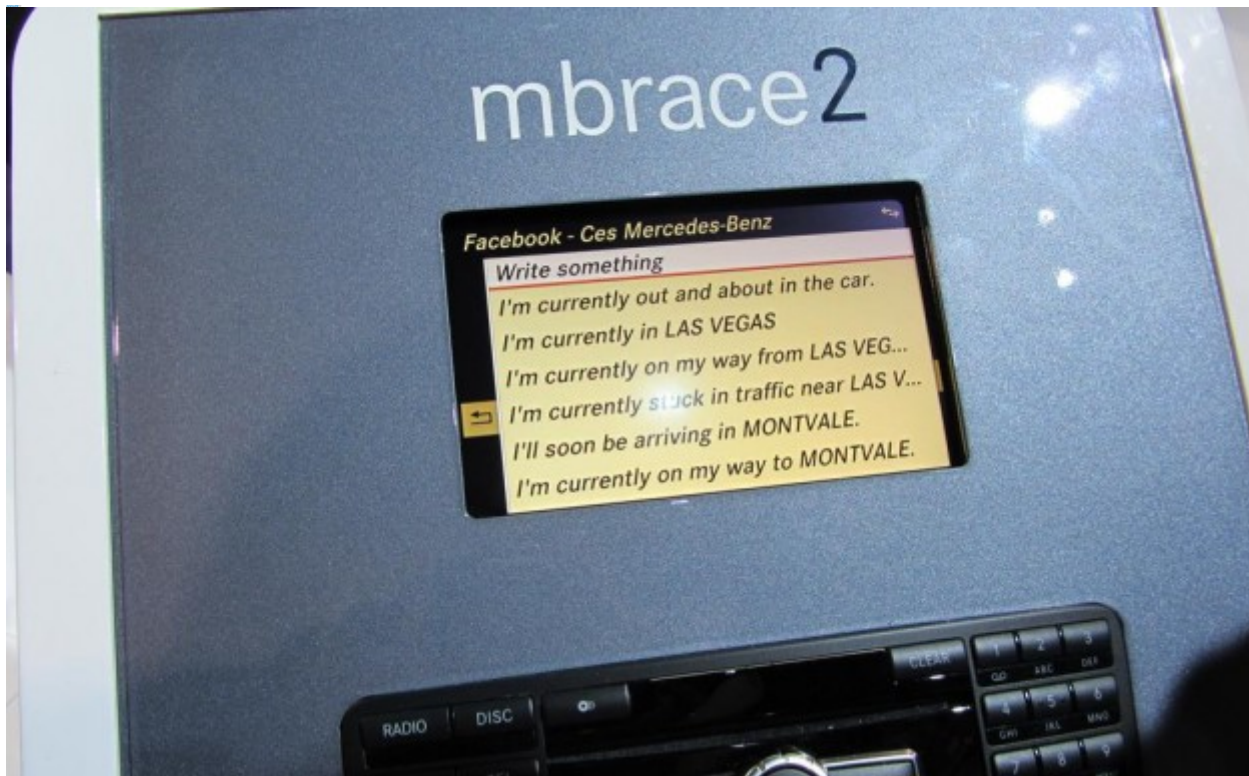
Extra-Curricular Activities

Date	Activitiy	Location
April 2012	Published and presented the article " Testing a transmission line model for homogeneous subsurface media using ground penetrating radar", at SPIE Defence and Security International conference	Balimore, MA, USA
Spring 2012	Received the Texas Instruments Fellowship'	Texas, USA
Since 2011	Member of the Golden Key International Honor Society	International
Since 2011	Member of "Society of Women Engineers" (SWE)	International
Since 2011	Member of the International Society for Optics and Photonics (SPIE).	International
Spring and Fall 2011	Achievement Award for New Engineering Students with outstanding credentials, University of Florida	Florida, USA



And here you can find a brief description of the application I am working in. (Source www.digitaltrends.com)

Mercedes-Benz Mbrace2 adds Facebook, Google Street View and Yelp



While drivers continue to rely on smartphones to check services like Facebook and Yelp while driving, Mercedes-Benz is looking to move that behavior to the dash of the car with the second version of mbrace technology.

Announced during the Consumer Electronics Show 2012, the new version of mbrace developed by Mercedes-Benz will support several new Web applications including Facebook profiles, Google search and Street View, Morningstar Finance, Panoramio and popular review site Yelp.

Many of the applications tie into the car's navigation system and update the car's route when redirecting to a nearby Facebook friend or a well-reviewed restaurant. The display for the various mbrace2 applications is to the right of the steering wheel and can be operated through the dials on the radio or a moving knob that's located near the shifter.



The Facebook application offers access to Places, Friends, Events, Wall and the News Feed in addition to a link to the Mercedes-Benz Facebook page. While the automobile is in operation, the driver can only access places, friends and events, but can also update their Facebook status.

However, a user cannot type out a Facebook status message while the car is being driven. Unless the car is completely stopped, the driver has to use the preset status updates like *“I’m currently out and about in the car,”* and *“I’m currently stuck in traffic in ‘GPS Location’.”* The Facebook friends list is restricted to friends that have included a phone number or home address on their profile, thus making it simple for the driver to call or create a navigation route to the user’s location. With the Yelp application, users have the ability to read reviews about a business, call the business or navigate to the business location.

Mercedes-Benz has the ability to roll out improvements to the applications through a 3G service and doesn’t require the car owner to make a visit to a dealership to upgrade apps. mbrace2 also includes geofencing technology which issues a text messages and emails to the owner of a Mercedes-Benz when the vehicle leaves a predetermined location. The notifications also include GPS tracking of the car’s current journey. Ideal for keeping inexperienced teenage drivers isolated to a specific area, it could also be helpful to police in regards to quick alerts when a vehicle is stolen.

20 June 2012