

If selected for the 2013-2014 Capstone Project Portfolio you will be responsible for sponsoring and adhering to the terms you outline below. As the Capstone Sponsor, please *initial* the following requirements by which you are agreeing to the following:

Provide a point person from your organization to advise the capstone team on a regular basis and throughout the whole duration of the project

Supply all necessary tools, software, and/or data necessary to do the project in a timely manner

Ensure the project has achievable deliverables that fit into a 9-month timeframe

Provide clear objectives for both the technical and business-related challenges of the project

By signing below you are indicating that you completed this form to the best of your knowledge and are agreeing to all the requirements of UC Berkeley's Capstone Project Program as listed above.

We look forward to working with you!

Name: ANI DAGAR Title: Director Engineering
Email: adagar @ qual comm. Phone: (858) 658-1643

Signature or Initials: Duff

Date: 05/01/13

Questions? Contact Beth Hoch hoch@berkeley.edu or 510-664-4587



Proposal Form (please complete all sections):

Project Title	Apps/User Experience Kits for Smartphones for Qualcomm Location Technologies
Industry Partner Company Name, Department, and Website	Qualcomm Atheros, Location Tech Dept (Izat) http://www.qca.qualcomm.com/technology/brand.php?brand=9 http://www.qualcomm.com/chipsets/izat
Problem (Describe the industry problem your project addresses in 100 words or less.)	Demonstrate and showcase benefits of location technologies like Precise Indoor Positioning, Sensor Assisted Positioning on Smartphones using Android Apps and/or other simple User Experience Kits
Technical Challenge (Highlight the technical challenge of the problem in 100 words or less)	Developing apps, user experience kits that are simple to use, portable, and test sceanrios that easily demonstrate the benefit of Qualcomm's location technologies to any smartphone user who is not interested in looking at statistics or numbers.
Objective (In 100 words or less, use bullet format and ensure objective is practical for a 9 month project)	Understand underlying technologies, archtitecture Come up with ideas on apps, user experience kits to demonstrate the benefit/use of these technologies Develop/implement Android apps and user experience kits using Qualcomm indoor and sensor assisted location technologies
Project Illustration (Optional) Include websites, videos, diagrams or images to help students understand your project	Some initial information on websites below http://gigaom.com/2012/11/15/qualcomm-technology http://gigaom.com/2012/11/15/qualcomm-tackles-indoor-location-with-new-generation-of-chips/



Open or Closed Model – Please check one: Open Model (Public	Please select one and clearly outline what, if any, resources will be provided:
collaborative and may use university lab equipment) or	Open Model/Public collaborative
Closed Model (Virtual internship, private, with faculty liaison)	Tools and Equipment that will be provided include:
* Please list the necessary equipment, software or data that	Closed Model/Virtual internship
is needed and will be provided to the team.	Tools and Equipment that will be provided include: Access to Qualcomm tools, software, APIs needed for the project
Ideal Team Size (We prefer teams of 4 students, unless otherwise specified)	2-3
Departments Accepted (Choose from CEE, EECS, IEOR, ME, MSE, NE. Indicate	Please indicate your ideal team makeup by specifying the technical concentrations desired.
ideal team makeup and	BIOS - Bissanding Consent Brown
technical concentrations desired, i.e.	BIOE= Bioengineering General Program CEE = Civil & Environmental Engineering
"1 CEE ; 1 EECS; 2 IEOR")	EECS = Electrical Engineering & Computer Science
	IEOR = Industrial Engineering & Operations Research
	MSE = Materials Science & Engineering
	ME = Mechanical Engineering NE = Nuclear Engineering
	TVE - Nuclear Engineering
	2-3 EECS
Specific Skills Required (i.e. C/C++/C#, Python ,CAD, Robot Kinematics, MATLAB,	C/C++/Java
Excel Financial Modeling, etc.)	
The more detail provided here the better team match you will receive.	
Coursework	
(Indicate any recommended/required	
prerequisite/co-requisite classes)	
Industry Advisor(s) Name, Email, Phone Number	Anil Dagar,
Name, Email, Frione Number	adagar@qualcomm.com
*If this is a closed model an Industry Point Person from your	(858)658-1643



organization is required for the duration of the project and must be available to advise the team on a regular basis and provide all necessary resources	
Faculty Advisor(s) or Academic Liaison Name, Department, and Email *If this is an open model the Faculty Advisor or Academic Liaison is the primary party responsible for the advising and guidance of the capstone team, including providing all the necessary resources	