Developing Breakthrough Projects

Memorandum of Agreement

Note: Students will NOT be able to begin their work until this form is received by the TEC Curriculum Coordinator and final approval has been given.

Project Site Placement Start Date	e August 24, 2015			
Student Name <u>John Forbes</u>				
UIN <u>999999999</u>	Anticipated Gradua	ation (Semester/Year) Spring/2017		
Student Status in School (Current Year in School) <u>Junior</u>				
U of I Email Address <u>iforbes9987</u>	@illinois.edu	Phone Number <u>217-999-8797</u>		
Home Department Electrical and Computer Engineering				
Faculty Breakthrough Innovation Projects Supervisor Name <u>Jane Jobs</u>				
Phone Number <u>217-333-0000</u>		Email Address <u>jjobs556789@illinois.edu</u>		
Day-to-Day Project Supervisor Name (if applicable) Theodore Wright				
Phone Number <u>217-333-0001</u>	Email Address	twright001@illinois.edu		
Project Name Beagle Bone Mode	em			
Brief Description of the Project (please attach additional pages if necessary):				

Scope and Content: Please list the scope, content, and skills to be obtained and/or sharpened during the Breakthrough Innovation Projects course.

Writing real-time implementation of wireless modem for the Beagle Bone black at Company A. As a

summer intern, I will work with the lead modem engineer (Theodore Wright) on this project.

I will:

- Learn the agile development process for software engineering
- Learn to work in a team and clearly define requirements and verification tables for my part of the project
- Optimize modem code for real-time implementation to meet specific performance specifications
- Profile each major block within the code to determine critical loops and functions. Optimize these in C++ or Assembly to meet performance goals

Deliverables from Student (ex: journal, research paper, poster/presentation):

- Document all code and libraries developed
- Report all work completed, including milestone and schedules showing dates completed
- Requirements and verification table showing all met requirements and for each not met, an explanation of what went wrong.

Which of the following leadership and/or innovative skills do you anticipate learning, building upon? (Must check at least 4 boxes). You will report on your progress towards these in your midterm and final papers/projects.

	Financing		
	☐ Fundraising		
	□ Bootstrapping		
	□ Grants		
	□ SBIR		
	☐ Harvesting		
	□ Exit Strategies		
Χ	Marketing		
	☐ Marketing Plan		
	☐ Competitive Strategy		
	☐ Market Research		
	□ Talking to customers		
	□ Validating the idea		
	□ Prototyping		
	Sales		
	□ Distribution		
	□ Sales process		
	Closing a deal		
	Operations		
	Outsourcing		
	☐ Manufacturing		
	☐ Supply Chain		
X	Business plan		
X	Product Development		
Χ	Opportunity creation and identification		
	Structure of a business		
	□ Legal		
	☐ Accounting		
	□ HR		
	☐ Company formation		
_	☐ Building a team		
	Negotiations		
	Technology Management		
	Business Management		
	Project Management		
	Intellectual Property		

Developing Breakthrough Projects Memorandum of Agreement cont.

Social Impact/Grand Challenges Intrapreneurship Agile Startup Lean Startup Ethics Agreed upon Meeting Schedule of Student and Faculty Supervisor (freque Meet weekly for 1 hour	ency):			
Credits and Evaluation:				
Start and end dates of experience: <u>August 24 – December 15, 2015</u>				
How many hours/week or total hours will be spent: 15 hours/week				
Number of credit hours for experience: 3 credit hours				
Dates that deliverables due to Faculty Supervisor (Copy also given to Brooke Newell): Midterm: October 25, 2015 Final: December 15, 2015				
I understand the expectations of my experience to be completed at the time on this agreement. The scope, content, and deliverables have been prepared with my experiential supervisor and project supervisor. I understand that the experience and the deliverables may be used in publicity and recruiting by the Entrepreneur Center and/or the College of Engineering.	d in consultation e details of my			
Student Signature	Date			
Memorandum of Agreement Approvals:				
Faculty Breakthrough Innovation Projects Supervisor Signature	Date			
Day to Day Project Supervisor Signature	Date			
Please send the MOA as a single .pdf file to Brooke Newell:bsnewell@illi	inois.edu			
Office use only				
Date Received:				
Comments:				
TEC Curriculum Coordinator's Signature	Date			