

AR Campus Tours

Patrick Green, Christopher Livingston, Billy
Rathje, and Eli Spiegel

Our Project

- Making an Android and iOS app to facilitate campus tours using augmented reality.
- Display nearby buildings and events and relevant information about them on a map and overlaid on the phone's camera view.

Accomplishments

- Displays information about buildings on an augmented reality map centered on the user's location
- Displays building information as AR camera overlay
- Pulls data from a web server
- Integrated with Facebook to pull nearby events
- Search through buildings

Obstacles

- Migrating to a web database took some extra time
- Facebook integration and Facebook queries took a while to debug
- Hardware setup and testing for multiple platforms
- OpenGL

Learning

- Augmented Reality
- Android Development
- iOS Development
- Facebook SDK, Parse Server SDK, Google Maps SDK
- Scaling and distributed programming



10:20 PM



Capstone

Facebook

Capstone would like to access your public profile and friend list. It would also like to access your basic info and list of friends, access your photos, access your events and events shared with you, access your current city and access your activities.

Cancel

OK

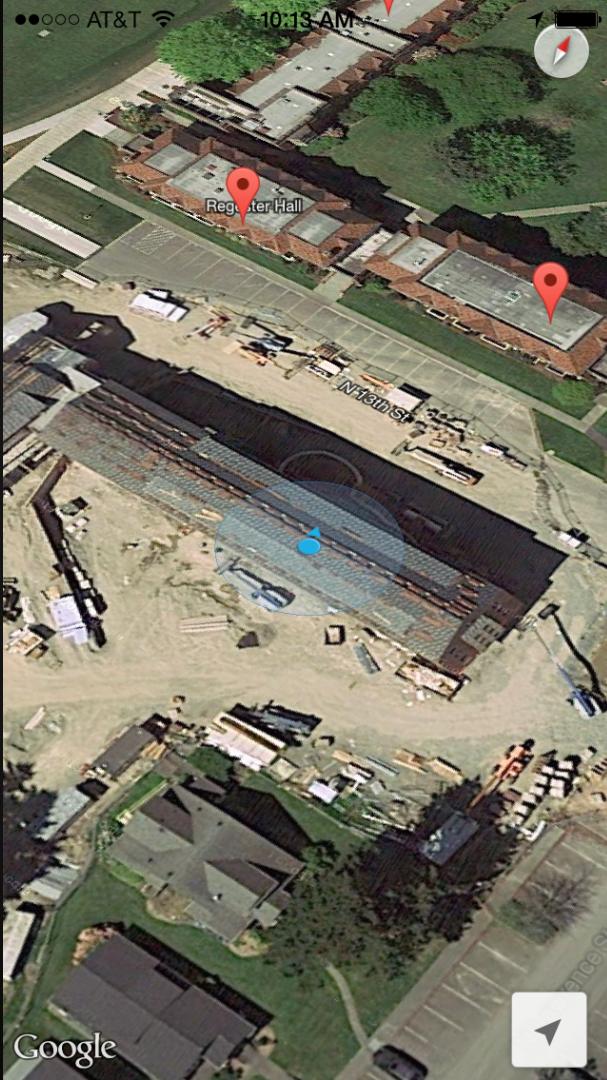


11:05



Capstone







Demo

Video demo

Are you on track given your timeline?

Week 1	Requirements Design
Week 2	Camera working
Week 3	Pulling GPS data
Week 4	Fundamental GUI in place
Week 5	Working app with building tagging
Week 6	Testing basic app and thinking about features
Week 7	Feature design and development*
Week 8	Feature design and development*
Week 9	Feature design and development*
Week 10	Feature design and development*
Week 11	Feature testing and debugging
Week 12	Feature testing and debugging
Week 13	Polishing code and final report write up
Week 14	Upload working app to app store
Week 15	Prepare for presentation

Features We've Implemented

- Facebook event integration
- New location aware augmented map view
- Pulling data from a web server
- Internal building awareness

(In Progress):

- Displaying nearby Facebook friends on the map

What's next?

- Almost done...
- Adding more content
- Enhancing UI
- Fully implementing find my friends feature
- Pulling from Google Places to generalize AR to the entire world (and other campuses)