# **Information Kiosk**

#### Summary

An interactive kiosk is to be built for the Computer Electrical Engineering and This device will serve as an Department. information hub for all activities and functions in the College and will have a user-friendly and inviting appearance. The goal is to improve the information flow of the College while enhancing the image of the ECE Department to be that of an up-to-date center of advanced technology.

#### Background

• The FAMU-FSU College of Engineering does not have any modern technology exhibits

- Existing maps and displays are going unused
- Information is not currently dispersed in a convenient and efficient manner

#### **Objectives**

- Create a visually appealing information hub
- Allow students, visitors, staff, and faculty a chance to interact with the system
- Add exciting 'WOW' factor to the College
- Reach audiences missed in previously used methods with up to date information

#### Acknowledgments

We would like to use this opportunity to show our gratitude to everyone involved with the ECE Advisory Board, Dr. Petru Andrei, and Dr. Shayne McConomy. Team 2 thanks them for their guidance and support, constructive criticism, and professional views thus far on this venture.



- Proposed Designs Multiple Screens • Moving Screen (Tilting or Up/Down) Back Projection with Motion Controls



<b>Selection Criteria</b>	Weight	Option 1	Option 2	Option 3	Option 4
User Interface	W3	Touchscreen	Voice	Kinect	
Touchscreen	W4	Integrated	Overlay	N/A	
Screen Size	W4	55 inches	44 inches	36 inches	Variable
# of Screens	W4	1	2	3	Projection
Degrees of Freedom	W7	Fixed	1 Pivot	1 Translation	Multiple
Location	W8	Corner	Middle		
Concepts Generated		Design 1	Design 2	Design 3	Design 4
Wow-Factor	W1	1.5	2	2	2
Cost Estimate	W2	2	1	0.5	0.5
TOTAL SCORE		3.5	3	2.5	2.5

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**Concept Generation** 

Design 2



**Figure 2: Screen Layout Options** 

**Table 1: Decision Matrix** 







**Figure 3: Concept** on Location

#### **Concept Components**

1	55 in. Display		
2	Protective Glass		
3	Touchscreen Overlay		
4	Two 2.5 in. Speakers		
5	Flush-mount Frame		
6	Computer		
7	9 in. Wall Build-up		

#### Conclusion

The ECE Kiosk will provide a smart and innovative way to display key information for students and faculty all while exhibiting the technological edge the college takes pride in. that Consulting with all parties involved has yielded a very promising plan moving forward.



#### **Concept Selection**

#### Selected Design

- Single Screen, 55 in., portrait orientation
  - Height accessible for various users
  - Impressive screen will attract users
  - Glass with touchscreen overlay protects display
- Compact speakers for high traffic, multipurpose area



**Figure 4: Exploded Concept** 

#### **Software Design**

Access to data from COE website is essential Fully decouple Drupal to access data • New COE website will be rolled out soon Built using internet content manager Drupal Display data inside Android app

#### • Discrete Hardware

- Existing column used for depth
- Computer within wall or remotely wired to display
- Room to expand •
- Clean, bold look

## Drupa

#### • Add custom features like interactive map and professors' office hours

#### **Future Plans**

- Purchase displays, computer parts
- Finalize mounting location with building services
- Coordinate programming tasks with CMS
- Benchmark anti-tampering measures, software, and ergonomics