



E3VB

*Engineering Engagement Electrical Validation
Board*

Project Proposal

Revision 1.3

January 2015

Team 12

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About this Document

Introduction, Purpose and Scope

This document covers the project proposal.

Document Revisions

Rev.	Date	Owner	Details
1.0	1/13/15	Kris Gibbs	Initial doc with initial outline of project
1.1	1/17/15	Kris Gibbs	Added more detail to the documentation and added a new section for board improvements
1.2	1/17/15	Brandon Towell, Travis Berger, Luis Santiago	Group revisions and expansion to proposal points. Added team number to Title Page.
1.3	1/24/15	Travis Berger, Luis Santiago, Kris Gibbs	Added task breakdown and task timeline.
1.4	1/26/15	Dr. Morris	Edited experiments in timeline

Table 1 – Document Revisions

Abbreviations, Acronyms and Terminology

Term	Acronym	Description

Table 2 - Abbreviations, Acronyms and Terminology



Reference Documents

Ref #	Document Name	Doc Ver.	Relevance
Ref 1			
Ref 2			
Ref 3			
Ref 4			
Ref 5			
Ref 6			
Ref 7			

Table 2 – Reference Documents



Project Proposal

This section defines the projects key work items.

Project Tasks

Improve Project Documentation

- Give all Documents the same look and feel.
- Create a lab manual for the student and a separate lab manual for the Lab instructor with expected results and more detailed directions.
- Provide background theory before each experiment.
- Make experiments as clear as possible by improving setup procedure.

Develop a User Friendly Website

- Post all experiment documentation to the website in a printer friendly format.
- Develop an interactive section of the website.

Get the Word Out About the Board

- Develop a way to improve exposure of the board.

Add Content to Board Experiments

- Add steps to current experiments.
- Possibly create new experiments.

Improve the Board Documentation

- Provide clear concise locations for board experiments.
- Provide top down visual aids for various experiments.



Task Breakdown

Kris

Experiments

- Intersymbol Interference
- Simultaneous Switching Outputs
- Crosstalk I & II

Website Development

- Hosting
- Learning Language
- Writing Code

Luis

Experiments

- Intersymbol Interference
- Driver Circuit
- Crosstalk I & II

Website Development

- Support Kris

Travis

Experiments

- LCR Transmission Line
- Corners and Vias
- Crosstalk I & II

Promotion

- Investigate Promotional Avenues
- Investigate Best Promotional Medium
- Create Promotional Project and Deliver Across Promotional Avenue



Brandon

Experiments

- Mystery Traces
- Decoupling
- Crosstalk I & II

Promotion

- Investigate Promotional Avenues
- Investigate Best Promotional Medium



Project Timeline

Experiments

1. Crosstalk I
 - One Week
2. Crosstalk II
 - One Week
3. Intersymbol Interference
 - Three Weeks
4. Simultaneous Switching Outputs
 - Three Weeks
5. Intersymbol Interference
 - Three Weeks
6. Driver Circuit
 - Three Weeks
7. LCR Transmission Line
 - Three Weeks
8. Corners and Vias
 - Three Weeks
9. Mystery Traces
 - Three Weeks
10. Decoupling
 - Three Weeks

Experiments Expected Completion:

1. **Preliminary Student Version: End of February**
2. **Final Including Instructor Version: End of March**

Website Development

1. Hosting
 - **Expected Completion: End of March**
2. Learning Language
 - **Expected Completion: Mid April**
3. Writing Code
 - **Expected Completion: Mid May**



Website Expected Completion: Mid May – End of May

Promotion

1. Investigate Promotional Avenues
 - **Expected Completion: End of March**
2. Investigate Best Promotional Medium
 - **Expected Completion: End of March**
3. Create Promotional Project and Deliver Across Promotional Avenue
 - **Expected Completion: Mid May**

Promotion Expected Completion: Mid May