

1. Intro – 1 Slide
2. Outline – 1 Slide
3. Project Overview – 4 Slides
4. BIM/IPD – Critical Industry Issue - 4 Slides
  - a. IPD Interview Analysis – 2 Slides
  - b. BIM Execution Rubric – 2 Slides
  - c. BIM Execution Plan – 2 Slides
5. In-Depth Safety Plan – 2 Slides
  - a. Site Specific Safety Rubric – 2 Slides
  - b. Site Specific Safety Plan – 3 Slides
6. Emergency Power Analysis – 2 Slides
  - a. Evaluation of Risks – 1 Slide
  - b. 250kW Kohler Generator Analysis (Breadth) – 2 Slides
7. Building Envelope Analysis – 2 Slides
  - a. Cost Analysis – 1 Slide
  - b. Structural Analysis (Breadth) – 1 Slide
8. Conclusions & Recommendations – 1 Slide
9. Acknowledgments – 1 Slide
10. Questions & Answers – 1 Slide

# George Mason University - Student Union Building I

Fairfax, Virginia



**Brett Robinson**

Senior Thesis Presentation 2010

Penn State University

Construction Management  
Advisor - James Faust

## Presentation Outline



- I. Project Overview
- II. BIM/IPD – Critical Industry Issue
  - I. IPD Interview Analysis
  - II. BIM Execution Rubric
  - III. BIM Execution Plan
- III. In-Depth Safety Plan
  - I. Site Specific Safety Rubric
  - II. Site Specific Safety Plan
- IV. Emergency Power Analysis
  - I. Evaluation of Risks
  - II. 250kW Kohler Generator Analysis
- V. Building Envelope Analysis
  - I. Cost Analysis
  - II. Structural Analysis
- VI. Conclusions & Recommendations
- VII. Acknowledgments
- VIII. Questions & Answers





- I. **Project Overview**
- II. BIM/IPD – Critical Industry Issue
  - I. IPD Interview Analysis
  - II. BIM Execution Rubric
  - III. BIM Execution Plan
- III. In-Depth Safety Plan
  - I. Site Specific Safety Rubric
  - II. Site Specific Safety Plan
- IV. Emergency Power Analysis
  - I. Evaluation of Risks
  - II. 250kW Kohler Generator Analysis
- V. Building Envelope Analysis
  - I. Cost Analysis
  - II. Structural Analysis
- VI. Conclusions & Recommendations
- VII. Acknowledgments
- VIII. Questions & Answers



## Project Overview

<b>Occupancy Type</b>	Group B (Offices, Classrooms), A-3 (Meeting Rooms larger than 750ft2), A-2 (Restaurant, Dining)
<b>Construction Type</b>	IIA
<b>Size</b>	65,382 GSF
<b>Number of Stories</b>	Four Stories
<b>Dates of Construction</b>	June 2009 - July 2010 (Estimated)
<b>Actual Cost Information</b>	\$17.5 million

**George Mason University - Student Union Building I**  
Fairfax, Virginia

## Project Overview

### Project Team

Owner



Design Builder



Architects



April 12, 2010

Brett Robinson - Construction Management