**PROJECT OBJECTIVES**

- Summarize main sources of inefficiency in the electrical contracting field
- Create an informational guide to help electrical contractors understand BIM
- Devise and implement a plan for distributing the team’s recommendations for improving efficiency to electrical contractors

**WHAT IS BIM?**

BIM is not a software. BIM is an ideology; software creates BIM.

**SOFTWARES THAT CREATE BIM**

Revit
- Architecture
- Navisworks

**BUILDING INFORMATION MODELING**

BIM is a building design methodology characterized by the creation and use of coordinated, internally consistent computable information about a building project design and construction fields.

**TEAM ORGANIZATION**

**RESEARCH**
- Scott Anderson
- Eunice Cachero
- Page Khaled
- Minjeong Son

**CONTENT**
- Taehoon Kim
- Sewon Lee
- Jennifer Yi

**TECH**
- David Babnig
- John Carroll
- Changman KJ
- Lillian Park

**TEAM LEADERS**
- John Carroll, Michael Maloney

**SPONSORS**
- Electrical Contractors Association
- Illinois Institute of Technology

**BACKGROUND**

IPRO338 BIMiiT team is sponsored by the ECA: Electrical Contractors Association. Members of the ECA are experienced contractors in the electrical construction industry throughout Chicago, who offer and provide quality and cost-effective services. IPRO338 BIMiiT’s purpose is to identify strategies that improve efficiency of electrical contracting projects through the utilization of BIM: Building Information Modeling.

**SOFTWARE THAT CREATES BIM**

Revit
- Architecture
- Navisworks

**WHY BIM?**

It is estimated by the National Institute of Standards and Technology that the construction industry loses about $16 billion per year because of interoperability costs. BIM provides the efficiency necessary to greatly reduce these losses by acting as a communication tool for everyone that is involved in the project.

BIM allows easy implementation of prefabricated products, clash detection, total station layout, and smooth communication.

Reduces the number of draftsmen by allowing multiple projects at a time.

BIM has the ability to place components and edit them as the project progresses, which saves a large amount of time.

BIM instant schedule sheets count and account for every item, and are formatted, and ready to be placed into the drawing set.

**COST**

Total: $17,800 $20,300

AutoCAD
- Design Environment
- Construction Documents
- Checking & Coordination
- Total

Autodesk
- Revit
- Navisworks
- Total

Autodesk
- Revit
- Total