IPRO 333: Fab Lab

Dream IIT, Design IIT, Fabricate IIT

Presenters:
Keenan Gottschall
Rachel Hendricks
Jered Linares
Purpose

Partnership between IIT and Museum of Science of Industry (MSI) to develop and promote the Fabrication Laboratory (Fab Lab)
What is a Fab Lab?

An open access workshop that houses digital fabrication equipment for rapid prototyping
The Fab Lab at MSI is under-developed and under-utilized
Objectives

- Organization
  - Prepare Fab Lab for future use

- Projects
  - Develop projects that adhere to Illinois Math and Science standards

- Marketing
  - Publicize the Fab Lab to the community
MSI-entists

IPRO 333: MSI-entists
Team Leaders:
Keenan Gottschall & Michael Gajdorus

Projects
Develop projects that adhere to Illinois Math and Science standards.
- Howard Clark
- Jered Linares
- Paul Marks
- Jeremy Young
- Raymond Zhou

Organization
Ready the lab for safe, responsible use.
- Andrew Bonesz
- Carlie Douglas
- Michael Gajdorus
- Keenan Gottschall
- Rachel Hendricks
- Clayton Kimball
- James Mellom
- Carl Stelcel

Marketing
Create a self-sustaining Fab Lab.
- Andrew Bonesz
- Keenan Gottschall
- Cindy Oblenida
- Sabina Pop
Timeline

**Projects**
- August: Read IL Math and Science Standards
- September: Brainstorm projects
- October: Narrow down list
- November: Start prototyping
- December: Final project deadline
- November: Written tutorials
- December: Final project generation
- December: Evaluate tutorials

**Organization**
- August: User Manuals
- September: Inventory of tools and supplies
- October: Label drawers and cabinets
- November: Safety policies
- December: Post signs of policies
- December: User-friendly tutorials

**Marketing**
- August: Research work of other Fab Labs
- September: Analyze target market database
- October: Narrow down list of organizations
- November: Open house invitations
- December: Create business card
- December: Attend MFLN Symposium
- December: Promotional video
Organization

- User manuals/tutorials
- Inventory
- Labels
- Safety policies
- Equipment
Projects

- Concept of a Fab Lab impact communities
  - Education for under-served area
- Compliment Illinois Math and Science Standards
Marketing

- Open house invitations
- Brochure
- Business cards
- Promotional video
- Midwest Fab Lab Network Symposium
- New user groups identified
Obstacles

- Logistics
  - Travel
  - Scheduling
- Collaboration with MSI
- Broken equipment
- Sharing
- Liability
Future Goals

- SustainabilIITy
  - Funding
  - Staffing
- Business Plan (EnPro)
  - MSI Advisory Board
- Evaluation of tutorials
  - Education
  - Validity
- Events
Conclusion

better, improved Fab Lab

Organization
prepare lab

Projects
activities for users

Marketing
invite users in
Conclusion

• Positive impact to community
  – Education
  – IIT
• Wider range of users
• Prepared for use
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Questions