makerspace
makerspace

What is it?
makerspace

What is it?
- Selling tools from a van?
makerspace

What is it?
- Selling tools from a van?
- Hippie artist colony?
makerspace

What is it?
- Selling tools from a van?
- Hippie artist colony?
- Uncle Buck’s garage with rusty old tools that he uses to “fix” your car?
makerspace

What is it?
makerspace

What is it?
- It IS a SPACE
makerspace

What is it?
- It IS a SPACE
- a space with shared tools & materials
makerspace

What is it?
- It IS a SPACE
- a space with shared tools & materials
- a space that supports collaboration
makerspace

What is it?
- It is a SPACE
- a space with shared tools & materials
- a space that supports collaboration
- a space that supports knowledge sharing
makerspace

What is it?
- It **IS** a SPACE
- a space with shared tools & materials
- a space that supports collaboration
- a space that supports knowledge sharing
- a space that supports learning
makerspace

What is it?
- It IS a SPACE
- a space with shared tools & materials
- a space that supports collaboration
- a space that supports knowledge sharing
- a space that supports learning
- and always lot’s of PROJECTS
makerspace: broad definition
makerspace: broad definition
makerspace: broad definition

- formal
- large
- informal
- small

- hackerspaces
- Jon’s garage
- afterschool programs
makerspace: broad definition

- individual classrooms
- afterschool programs
- hackerspaces
- Jon’s garage
makerspace: broad definition

- formal
- informal
- small
- large

- individual classrooms
- afterschool programs
- hackerspaces
- Jon’s garage
- community makerspaces
- open-source community
makerspace: broad definition
makerspace: broad definition

- formal
- informal
- large
- small
- children
- adults
- community
- makerspaces
- Tech Ed programs
- colleges
- universities
- business
- innv
- open-source
- community
- hackerspaces
- Jon’s garage
- afterschool programs
makerspace: broad definition

- Jon’s garage
- hackerspaces
- high school
- afterschool programs
- individual classrooms
- children

- Business Innv
- Colleges Universities
- Tech Ed programs
- community makerspaces
- open-source community

- adults
makerspace: broad definition

- Jon's garage
- hackerspaces
- high school
- individual classrooms
- afterschool programs
- Business Innv
- Colleges Universities
- Tech Ed programs
- open-source community
- community makerspaces
- trending younger

- children
- adults
So why is this important?
So why is this important?

Drive for all things STEM
- 21st Century workforce short on trade skills
- Keep up with the Jones’
- We’re outsourcing high-tech jobs
- Global forces are bringing manufacturing back on shore, but differently - and we’re NOT prepared
So why is this important?

Drive for all things STEM
- 21st Century workforce short on trade skills
- Keep up with the Jones’
- We’re outsourcing high-tech jobs
- Global forces are bringing manufacturing back on shore, but differently - and we’re NOT prepared

We love STEAM
- America has always embraced Art and Design READ: the user interface
- Objects are losing their meaning - unless they HAVE meaning
- Mass Customization
- Made by me, for me and about me.
- Distinctly unique
makerspace: broad definition

- formal
- informal
- large
- small
- young
- old
- community makerspaces
- hackerspaces
- Jon's garage
- afterschool programs
- open-source community
- Business Innv
- Colleges Universities
- Tech Ed programs
makerspace: broad definition

- individual classrooms
- Tech Ed programs
- Business
- Colleges
- Universities
- afterschool programs
- Jon's garage
- hackerspaces
- open-source community
- art
- community makerspaces
- old
- large
- formal
- informal
- young
- technology
makerspaces in WI
makerspaces in WI

- Milwaukee Area
  Bucketworks
  Milwaukee Makerspace
makerspaces in WI

- Milwaukee Area
  Bucketworks
  Milwaukee Makerspace
- Madison
  Sector 67
  The Bodgery
  Madison Bubbler (Library)
makerspaces in WI

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- Madison
  Sector 67
  The Bodgery
  Madison Bubbler (Library)
- Appleton
  Appleton Makerspace
  Neenah Public Library
makerspaces in WI

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- Appleton
  Appleton Makerspace
  Neenah Public Library
- Whitewater Makerspace
- Fond du Lac - MakeBit
makerspaces in WI

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GREEN BAY

- Low median age
- Solid industrial base
- Industry poised for innovation
- Industry has jobs it can’t fill
- Mfg has low appeal to kids
- Hi tech seems out of reach
● There is a need to build enthusiasm for STEM!!
makerspace: broad definition

- formality
  - formal
  - informal
- size
  - large
  - small
- setting
  - individual classrooms
  - afterschool programs
  - Jon's garage
  - hackerspaces
- focus
  - technology
  - art
  - community
- age
  - young
  - old
- context
  - Tech Ed programs
  - Colleges
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makerspace: broad definition

- formal
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- art
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- Universities
proto: an early form of...
proto: an early form of...

...Career
...Product
...Business
...Adult
...Community
...Interest
...Passion
...Industry
...Idea
...Genius

... FILL IN YOUR OWN BLANK
FAQs
FAQs

WHAT?
**WHAT?**

- **TOOLS**
  - Design Software
  - CNC, Laser Cutting
  - 3D Printing
  - Wood Fab
  - Metal Fab
  - Plastic Fab
  - Ceramics Fab
  - Textiles Fab

- **SKILLS**
  - Programming
  - CAD
  - Industrial Design
  - Electronics
  - Photography
  - Sketching
  - Ideation
  - Project management
  - Presentation
  - Communication

- **MATERIALS**
TOOLs
- Design Software
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- management
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- Communication

MATERIALS

MENTORSHIP / CLASSES
- Focus on Kids
- Welcome Adults
- Classes - Tools
- Classes - Materials
- Classes - Techniques
- Classes - Kits/Projects
- Team “Off-Season” work
- Personal Skill Dev
- Personal Dev Projects
- Business Ideation
- Teacher-led Classes
- Tinkering Activities
- Community Connection
- Learning/Mentoring

WHO?

WHAT?
Team Collaboration
- FIRST Robotics
- Vex Robotics
- Destination Imagination
- Rockets For Schools
- Science Fair Projects
- Rube Goldberg Contests
- STEM Forward
- Adobe Youth Voice
- Award
- ETC...

Community Outreach
- Community Projects
- Volunteer Opportunities

**MENTORSHIP / CLASSES**

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**HOW?**

**WHO?**

**WHAT?**
REVENUE OPPORTUNITIES
Memberships • Classes • Retail "Maker" Store • Business Ideation Venue • Special Events

MENTORSHIP / CLASSES

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- Government Grants
- Bus./Corp. Donations
- Individual Donations

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BENEFITS
- STEM Enthusiasm
- Collaboration Skills
- Team-work Skills
- Problem-solving Skills
- Presentation Skills
- Design Sensibility

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Self-starter Skills • Self Confidence • Community Connection

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HAVING FUN & MAKING STUFF

STEM Enthusiasm • Collaboration Skills • Team-work Skills • Problem-solving Skills • Presentation Skills • Design Sensibility
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WHAT?

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HAVING FUN & MAKING STUFF
WHERE?
WHERE?

We are considering several possible locations. Dependent upon cost and funding. Green Bay metro area.
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WHEN?
**WHERE?**

We are considering several possible locations. Dependent upon cost and funding. Green Bay metro area.

**WHEN?**

**Phase 1:** Present - Q2 2016
Early-mid summer this year on a small “start-up” scale
Basic tinkering/engineering projects
Small scale digital fabrication tools (3d printing, laser cutting, CNC router)
WHERE?
We are considering several possible locations. Dependent upon cost and funding. Green Bay metro area.

WHEN?
Phase 1: Present - Q2 2016
Early-mid summer this year on a small “start-up” scale
Basic tinkering/engineering projects
Small scale digital fabrication tools (3d printing, laser cutting, CNC router)

Phase 2: Q2 2016 - 2018
Possible partnership with larger organizations.
Expanded size and capabilities with developing programs
**WHERE?**
We are considering several possible locations.
Dependent upon cost and funding.
Green Bay metro area.

**WHEN?**

**Phase 1:** Present - Q2 2016
Early-mid summer this year on a small “start-up” scale
Basic tinkering/engineering projects
Small scale digital fabrication tools (3d printing, laser cutting, CNC router)

**Phase 2:** Q2 2016 - 2018
Possible partnership with larger organizations.
Expanded size and capabilities with developing programs

**Phase 3:** 2018 - beyond
Stand-alone building with extensive capabilities, programming and community
Next steps:
- Finalize application for 501(c)(3) non-profit status with IRS
- Seek seed funding sources
- Acquire space, initial equipment
- Go - phase 1
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- Finalize application for 501(c)(3) non-profit status with IRS
- Seek seed funding sources
- Acquire space, initial equipment
- Go - phase 1

As we move on - we’re seeking:
- Board members - expand our circle, realize our vision
- Corporate, foundation and individual support
- Experts/enthusiasts to run workshops, clubs, teams, classes
Founders:
Dennis Rockhill
Jon Hill
Tim Hornberger
THANK YOU!!