The STREAM Lab
A maker space in Independence

Engaging youth in education and work readiness through a creative learning environment
WELCOME
Agenda

• Welcome
• Agenda  You are here
• Meet the management team
• The 3 questions to ask ourselves
• What is the STREAM Lab?
• How did we get here?
• Closing
Meet the management team

• Sean Larsen
  Operations Manager, Workforce & Education Department for Community Services Consortium (CSC)

• Mona K-Hinds
  Principal Youth Advisor, CSC Polk County office

• Morea Lloyd
  Senior Youth Advisor, CSC Polk County Office

• Josh Hjelmberg
  Technology Teacher, CSC Polk County Office
The 3 questions to ask ourselves

• What is missing in our Workforce programs?

• What don’t you get done, but want to within a work day/week?

• What do you hope to get out of this presentation?
What is the STREAM Lab?

- A learning environment focused on Science, Technology, Reading, Engineering, Arts, and Math
- Driven by 3 principle questions:
  - Is it possible?
  - Is it plausible?
  - Is it feasible?
- Then instead of asking WHY, we ask WHY NOT?
Available Technologies

- 10 FDM 3d Printers
- 4 sewing machines and a serger
- 2 Embroidery machines
- Dedicated sublimations dye printer
- Dedicated Laser printer for heat transfers
- 2 Flat iron heat presses and coffee mug attachments
- A Carvey CNC machine
- A 45w CO2 Laser

- 2 Large Format printers 24” and 44”
- A Cricut Maker edition
- A Rogue 24” Vinyl cutter

All backed by a new electrical panel for the room and a 600 cfm air and dust collection system
Community Donations

• 44” Larger format printer Donated by Polk County GIS office

• Zortrax M300 and materials donated by Zortrax via local Technology writer for Zdnet.com

• Brother PR 600 II Donated by a Chamber of Commerce member after visiting the space for a Chamber Greeters event
CSC Makerspace – The Beginning
It's not all about high tech equipment
Which flies better?

Copier Paper

Or

Card Stock
How did we get here?
OSU Mobile Maker Trailer
Celebrating Independence

Independence: Small, rural Gigabit City
OSU Buxton Hall
OSU Buxton Hall
Why a maker space?

Creating multiple pathways to success
Re-engages youth in education
Develops interest in and options for employment

A maker space encourages:
- Hands-on, project-based learning
- Developing skills in new technology
- Learning in an active, creative environment
- Entrepreneurship and business development
- Collaborative approach to learning

Youth learn problem-solving skills through solution-driven activities
How did we fund it?

• Initial Grant from The Oregon Community Foundation
  • Retrofit the electrical in the space
  • Majority of the equipment and training

• Additional funds from Willamette Workforce Partnerships
  • Funded equipment and supplies not covered in the initial grant

• Community events funded by the Institute of Museum and Library Services through the Library Services and Technology Act, administered by the State of Oregon
Partners

- Center for High School Success
- OCF (Oregon Community Foundation)
- Willamette Workforce Partnership
- Independence Oregon
- Western Oregon University
- Innovate Oregon
- Oregon State University College of Business
- Chemeketa Community College
- Central School District
- Monmouth/Independence Chamber of Commerce
- YMCA
- Indy Commons
- United Way
- Minet (Local Fiber Company)
- Community members and business makerspace experts
In Closing...

Any questions?
In Closing...

Thank you!
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