



# REDESIGN

AMERICAN RIVER COLLEGE

The Future of

## **Career Education & Workforce Development**

at American River College

**Dr. Frank Kobayashi**

Associate Vice President of  
Workforce Development





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*Celebrate*  
**CAREER!**  
**EDUCATION.**



**46 Career Education Programs**



California Community Colleges  
Chancellor's Office

**STRONG WORKFORCE  
STAR AWARDS**

- ★ Gold: Met all three criteria
- ★ Silver: Met two criteria
- ★ Bronze: Met one criteria

**CRITERIA**

- 📈 Earnings gain
- 👤 Regional living wage
- 👤 Job in related field

# Strong Workforce Stars

|                            |               |
|----------------------------|---------------|
| Earnings                   | ↑ 50% or more |
| Regional living wage       | ↑ 70% or more |
| Employed in field of study | ↑ 90% or more |



★★★ **2018** STRONG WORKFORCE STARS ★★★  
 Recognizing Excellence in Student Outcomes



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**American River College**

| Program Name   | Criteria Achieved |                      |                      |
|--|-------------------|----------------------|----------------------|
|  | Earnings Gain     | Regional Living Wage | Job in Related Field |
| ★ <b>Apprenticeship: Electrical</b><br><a href="#">More about this Gold Star program</a>           |                   |                      |                      |
| ★ <b>Emergency Medical Services-Paramedic</b><br><a href="#">More about this Gold Star program</a> |                   |                      |                      |
| ★ <b>Registered Nursing</b><br><a href="#">More about this Gold Star program</a>                   |                   |                      |                      |
| ★ <b>Respiratory Care</b><br><a href="#">More about this Gold Star program</a>                     |                   |                      |                      |

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**4 Gold Star Career Education Programs**





Dual Enrollment



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# AB 288: Dual Enrollment

- Expanding opportunities
- Underrepresented students
- Seamless pathways from high school to community college



# Dual Enrollment Pathways to ARC



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**Automotive Technology**  
(San Juan High School)

**Diesel Technology**  
(Rio Linda High School)

**Diesel Technology**  
(Highlands High School)

**Design Technology**  
(San Juan High School)

**= 240+ students**





Highlands High School



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Apprenticeship



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# Union Partners

- Carpenters Training Committee for Northern California
- Field Ironworkers Apprenticeship & Training Program
- Northern California Valley Sheet Metal Industry
- Plumbing and Pipefitting Industry, Sacramento and Yolo District
- Sacramento Area Electrical Apprenticeship



# Mark Fuchs

Executive Director Carpenters Training Trust Fund for Northern California



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**Carpenters Training Committee  
for Northern California**



# What is the future of Career Education and Workforce Development?



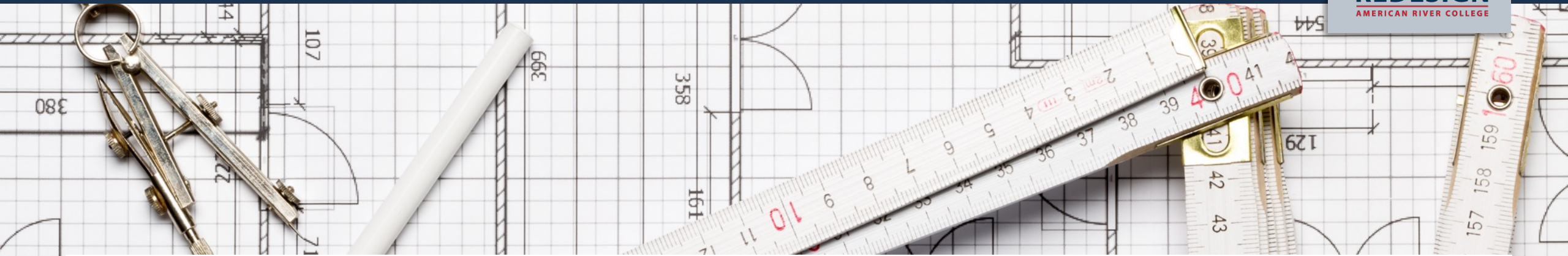
# What is the future of Career Education and Workforce Development?



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- The Flexible Workforce
- Automation
- Virtual/Augmented Reality and Immersive Learning
- The Internet of Things
- Skilled Worker Shortage & Re-Skilling Incumbent Workers

# Design Principles



**The need for flexible learning space that allows for cross disciplinary collaboration.**

**The need for learning space that mimics and reflects the industry**

**The need to consider disruptions such as virtual reality, robotics, AI, and the Internet of Things.**

**Expanding the “Work and Learn” Model.**

**Using the lens of “Lifelong Learning” as the continuum of Workforce education.**

**The need to be responsive to or predictive of employer needs.**

# Automation

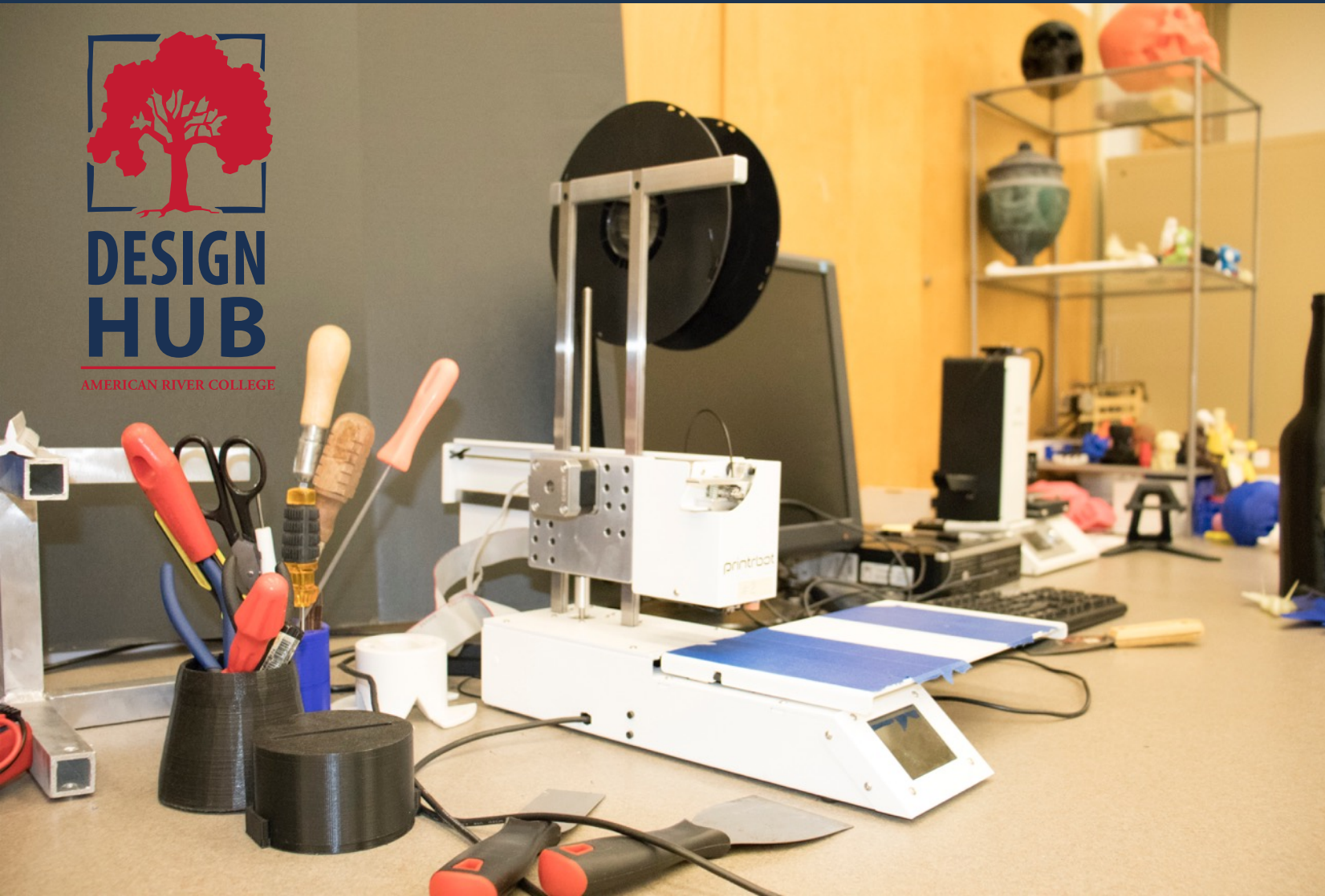
## Changes

- **Robotics and AI automating tasks done by people**
- **Highest Probability of Automation**
  - Office and Administrative Support Occupations
  - Production Occupations
  - Food Preparation

## Implication

- **Re-skilling**
- **What skills will be In-Demand?**
  - Creative skills
  - Social skills
  - Complex physical skills
  - Technological skills

# The Design HUB





# Virtual/Augmented Reality and Immersive Learning



## Changes

- Decreased need for brick/mortar
- Decreased need for equipment

## Implication

- Simulations
- Virtual learning

# Skilled Worker Shortage & Re-Skilling Incumbent Workers



## Changes

- Shortage of skilled workers

## Implication

- Need for Re-Skilling
  - Stackable certificates
  - Work and Learn Model
  - Responsive to Industry
  - Predictive of Industry

# The Internet of Things



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## Changes

- Data being collected constantly
- Internet of Things has potential to automate, adapt, and personalize the entire learning experience.

## Implications

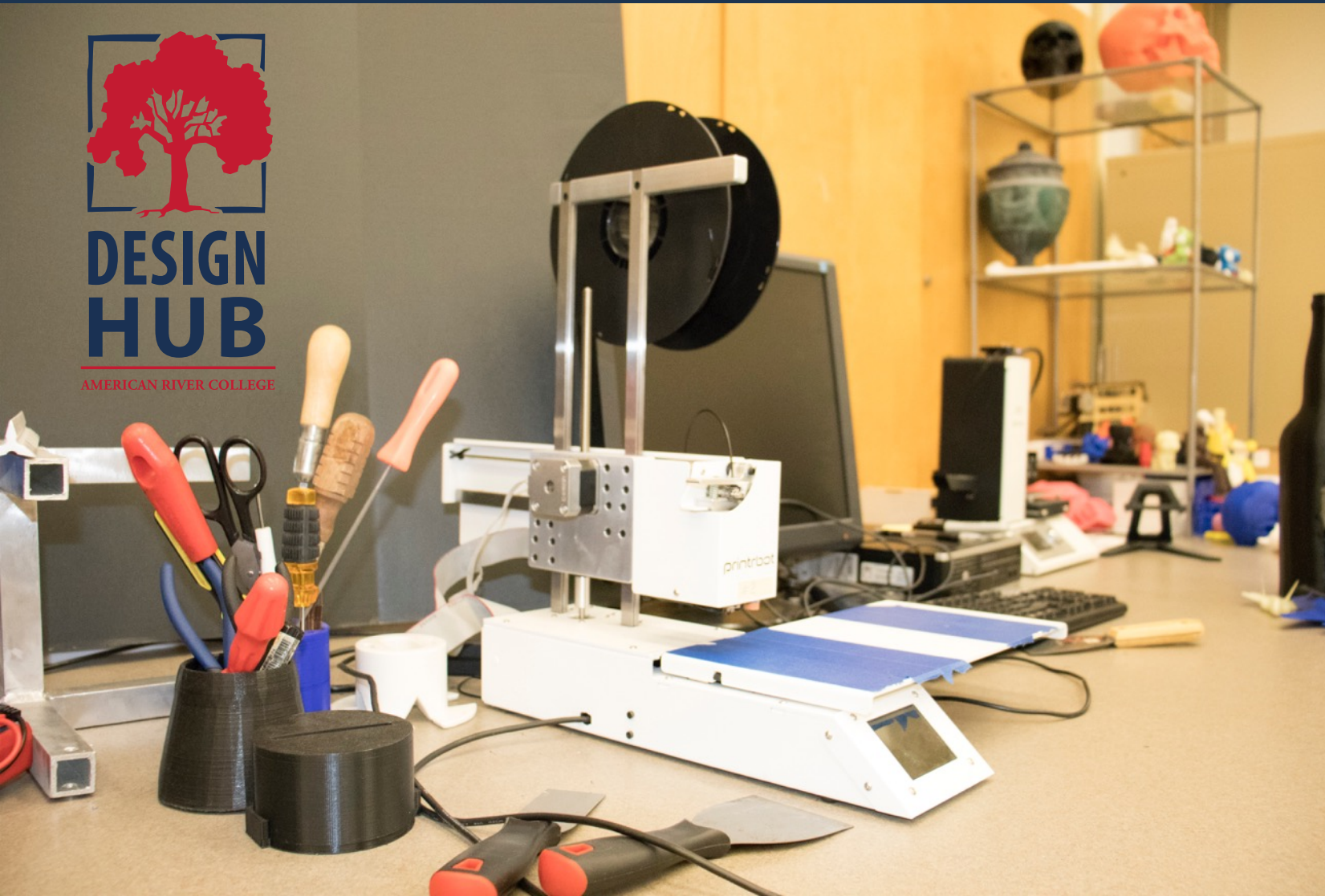
- The threat to data and the need for Cyber Security
- Interconnection of previously separate academic disciplines

# Intersectionality of Our Work



- National Center of Academic Excellence in Cyber Defense
- K-12 Strong Workforce
- Community College Strong Workforce
- Improving Online CTE Pathways Grant Application
- Apprenticeship

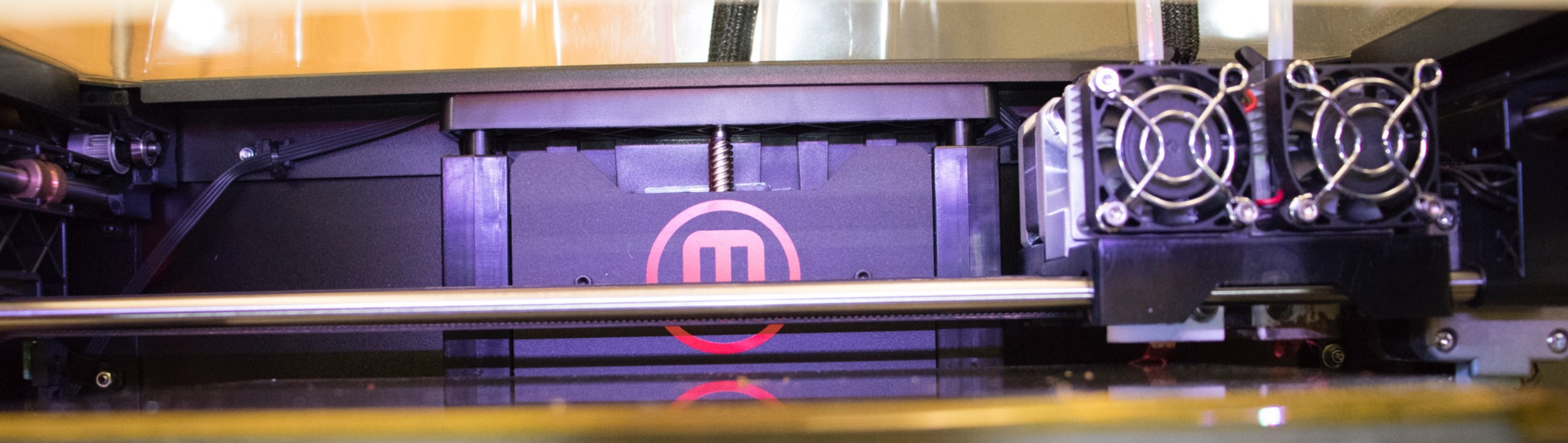
# The Design HUB





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Thank You