



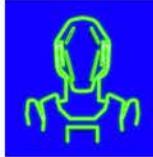
## GAME OVERVIEW

MAKER MOJO is a free-to-play career video game that introduces players to the skill sets, industries, and career opportunities within **advanced manufacturing**. In the game, players travel to a bright future designing rocket shoes, assembling flying cars, and recycling semiconductors on an exoplanet where data drives decisions and sustainability is the foundation for all. Along the way, they unlock minigames that simulate real-world job tasks and environments, and encounter local careers and regional pathways customized to their location.

### Avatar creation:

For students to imagine a successful future for themselves, they need to be able to "see" where their talents and interests can take them. Our avatar creator allows players to customize their characters by choosing from a variety of skin tones, hair colors, hairstyles, outfits, and accessories.



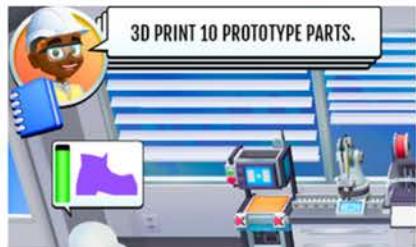


## Environments:

Each player is free to explore three different buildings within the exoplanet's advanced manufacturing community, each representing a different focus of the industry: Research & Development, Production & Manufacturing, and Recycling & Sustainability.



**Building 1:**  
Research & Development



**Building 2:**  
Production & Manufacturing



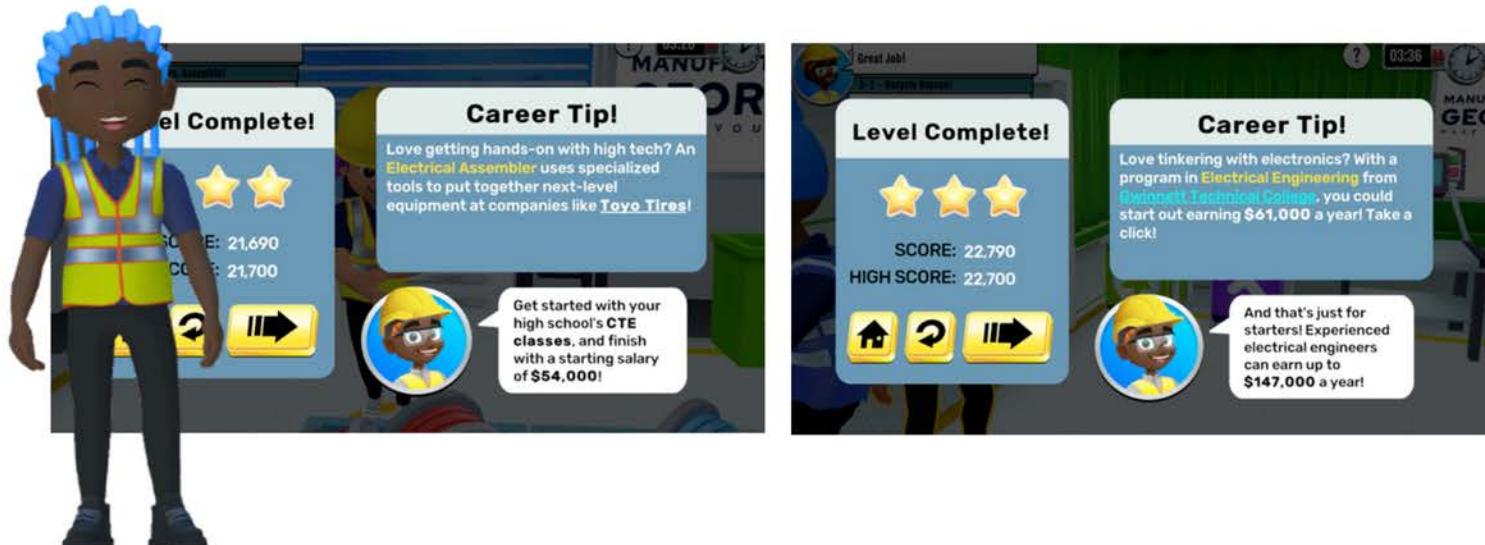
**Building 3:**  
Recycling & Sustainability





## Learning outcomes:

- Each player will practice Advanced Manufacturing's most employable skills:
  - Attention to Detail
  - Problem Solving
  - Accuracy
  - Time Management
  - Resource Management
  - Team Work
  - Attentiveness
- Each player will encounter over 100 industry terms and careers
- Each player will practice the following foundational industry principles:
  - Preventative Maintenance
  - Manufacturing Yield
  - Robotics and Automation
  - Cybersecurity
- Each player will familiarize themselves with the general settings and scenarios they may encounter working in advanced manufacturing.



## Careers and opportunities:

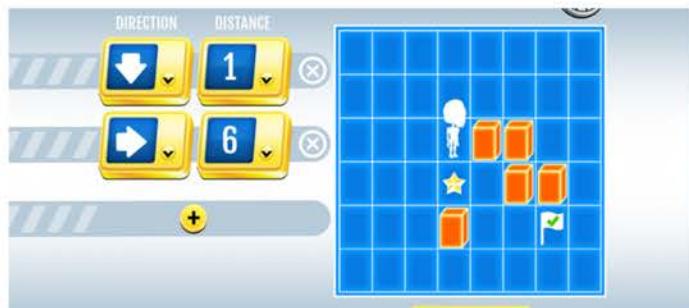
Maker Mojo shares information about advanced manufacturing careers through a feature called the Maker Manual. By interacting with the game in various ways—from completing levels to unlocking career-enhancing accessories—the player opens up new career entries and pathways.





## Minigame Challenges:

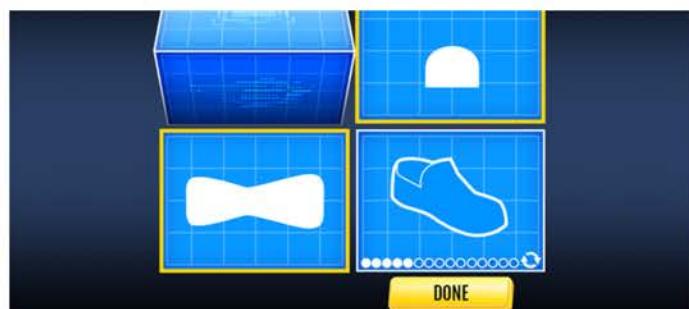
Minigame challenges correspond to real advanced manufacturing practices. Each level features minigames that relate to the level setting and contribute toward the player goal.



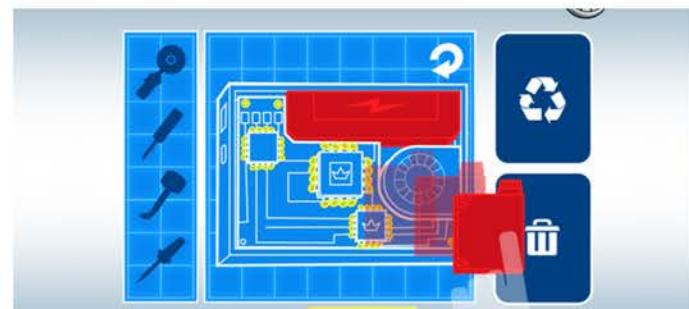
**In Control:** uses a controller pad to give a robot a set of step-by-step movement instructions



**Cybersecurity:** teaches good cyber practices by navigating situations involving cybersecurity



**CAD Cube:** matches top, side, and front views of an object based on a design template



**Disassembly Required:** takes apart products using instruction comprehension and tools



**Arm's Length:** utilizes basic if-then logic to program a robotic arm



**Assembly Required:** moves components into their correct positions using attention to detail



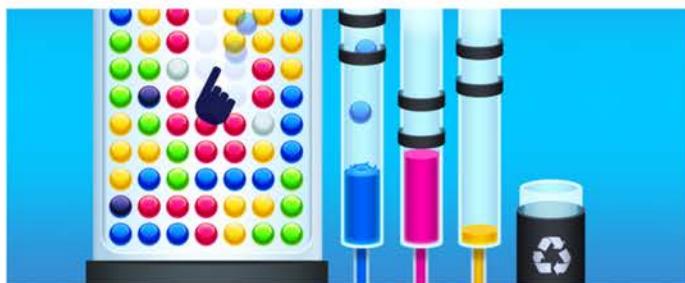
**Analysis Paralysis:** answers industry-inspired questions to determine a component's status



**Weld It:** precisely moves the touchscreen to control a welding machine



## Minigame challenges, continued:



**Resource Manager:** carefully fills gauges to varying levels by combining colored resources



### Badging:

Players earn points and stars that correlate with each level's achievement, and can earn up to six badges in *Maker Mojo*. Each badge represents a certain amount of mastery of core skills and concepts.



**Production Induction:** Make plans a reality by welding, assembling, and managing resources.

**Proto Mojo:** Learn about basic CAD, 3D printing, and prototyping technology to plan the future.

**Data Omega:** Analyze devices and machines, prevent equipment downtime, and predict demand.

**Robot Cobot:** Practice automated processes that involve precise movements and transportation.

**Hyper Cyber:** Use high tech equipment, detect cyber threats, and counter and prevent security lapses.

**Manufacturing Skillionaire:** Demonstrate manufacturing mastery by completing the game and exploring careers and key terms!

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