# Ashton Gilmore

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## PROFESSIONAL SUMMARY

CAD/CAM contractor, makerspace technical assistant, and computer science student with hands-on experience in digital fabrication and rapid prototyping. Proficient in Onshape, Autodesk Fusion, and SOLIDWORKS, with extensive additive manufacturing experience in filament and resin 3D printing, plus laser cutting, engraving, and plasma cutting. Skilled at supporting technical users, documenting safe equipment operation, and turning concepts into functional prototypes.

## TECHNICAL SKILLS

**CAD:** Proficient in Onshape, Autodesk Fusion (Fusion 360), and SOLIDWORKS
**Additive Manufacturing:** Extensive experience in filament (FDM/FFF) and resin (SLA/MSLA) 3D printing
**Fabrication:** CAM, laser cutting and engraving, plasma cutting, rapid prototyping
**Design & Fabrication Software:** LightBurn, Adobe Illustrator, Affinity, Canva
**Programming:** Python, C++, microcontrollers, software prototyping
**Operations:** Technical documentation, equipment maintenance, purchasing, project management, Microsoft Office

## EXPERIENCE

**CAD/CAM Designer (Contract)** Sep 2026 - Present
Toolkit Technologies
- Create 3D models of training-kit assemblies in Onshape for use in augmented reality (AR) instructional animations.
- Model cutaways and cross sections to reveal internal components and illustrate how assemblies function.

**Makerspace Technical Assistant** 2022 - Present
Southern Utah University, Thunderworks Makerspace Cedar City, UT
- Assist students, faculty, and community members with CAD, CAM, fabrication, and prototyping projects.
- Program, operate, and maintain laser and plasma cutting equipment for fabrication projects.
- Author and maintain safety and operating documentation for makerspace equipment.
- Coordinate purchasing of machines, consumables, and workshop supplies.
- Develop internal improvement projects and maintain and repair machinery to support reliable shop operations.

**STEM Camp Course Writer and Teacher** Summer 2024
Boys and Girls Club of America
- Developed coursework and presentations for week-long additive manufacturing camps serving middle and high school students.
- Taught CAD modeling, project iteration, and 3D-printing processes through hands-on projects.

**Warehouse Worker** 2020 - 2021
Amazon Fulfillment, SLC1 Salt Lake City, UT
- Performed order fulfillment, inventory induction, and cataloging across multiple warehouse functions.
- Served as a flex team member assigned to high-need operational areas for rapid problem resolution.

## EDUCATION

**Southern Utah University** Cedar City, UT
Bachelor of Science in Computer Science 2026 (In Progress)