Janna Gilleman

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EXPERIENCE

3D Printing Farm Manager, Smith College
August 2023 - Present

- Run seminars, public outreach, maintenance, and IT help. Coded a mobile website for the farm.

Werfen Polymer Injection Lab, Smith College— Research Assistant
June 2023 - August 2023

- Created an automated system that precisely fills small sensor cards with resin, then UV cures them. Designed and built the electronics system, the 3D printed fixture, and helped program AI scripts.

Tiny Foundations, Essex CT— General Intern and CAD artist
June 2022 - September 2022

- Design of a sustainable community and two new tiny house stock models based on consumer demographics. Also physically assembled custom steel framed Tiny House on wheels.
- Rendered interior models of stock houses in Blender and was hired again in the fall to continue this work. All my work is shown on their website to attract more customers.

Sustainable Materials Lab, Smith College— Research Assistant
June 2021 - February 2022

- Fabricated and tested new sustainable flax composite material; study of size effect.
- Created a custom sustainable vacuum infusion rig and clamping fixtures that allowed for the standardization of the tabbing process, increasing the amount of collectable data for the study on size effects.
- Tested composite material strength using Instron instrument.

Jarvis Surgical, Westfield MA— General Intern
2019-2020 Summers

- Edited surgical implant blueprints (OP-sheets) for the engineering team in SIEMENS NX.
- Worked multiple machines manufacturing high precision surgical knee, ankle, and shoulder implants. (Sand Blaster, Tormach Mill, CMM, Laser Engraver).
- Quality inspected final implants and readied them for shipping.

EDUCATION

Smith College, Northampton MA— General Engineering

- September 2020 - expected graduation Spring ‘24; Overall Grade Point Average 3.78/4.0
- BS Engineering Major, Concentration in Sustainability

Danish Institute for Study Abroad, Stockholm SE

- Spring 2023. Studied sustainable engineering design in Scandinavia and biomedical research being done at the Karolinska Institute.

SKILLS & AWARDS

DIGITAL: Code {C, C++, R, Python, Java, Javascript, CSS, HTML, Assembly}; CAD {Fusion 360, Blender, AutoDesk, Siemens Nx}; Adobe Suite; Misc {Logic Design, Rstudio, Matlab, Vscode, Github}; Microcontrollers {Arduino, Rasp Pi, Mbed}
PHYSICAL: 3d printing, brazing, woodworking, blacksmithing, sewing, carpentry
Awards: Audible Mention-Harvard Model UN 2018. Scholastic Writing Gold Key Award 2017.