

Alice Karp

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KEY SKILLS

3D Printing and Rapid Manufacturing

Precision Assembly

Machine Maintenance

Computer Aided Design

Functional Prototyping

EXPERIENCE

2020 – 2021

Design Research Fellow, Health Design Lab, Thomas Jefferson University.
Philadelphia, PA.

- Managed and operated a rapid manufacturing and prototyping 3D print facility, which included 10 commercial grade FDM printers and 4 commercial grade SLA printers
- Maintained and serviced all machines to ensure accuracy, repeatability, and reliability
- Vetted client project proposals for feasibility
- Used Fusion 360 and Materialise Mimics Suite to generate models from the ground up or for converting medical imaging to printable parts
- Printed, post-processed, and assembled prototypes as well as bulk orders of up to 30 models per week
- Printed high-precision guides for use in facial surgeries

2016 - 2017

Security Analyst, NuHarbor Security. Williston, VT.

Monitored bulk data streams from client endpoints for abnormal activity and possible signs of infection or system compromise.

2011-2015

Research Associate, Ballif Lab. Burlington, VT.

Operated a variety of laboratory equipment while performing protein structure and interaction analysis, including microscopes, film developers, light spectrometers, and mass spectrometers.

EDUCATION

2018 - 2021

Masters of Medical Science (in progress). Sidney Kimmel Medical College
Thomas Jefferson University. Philadelphia, PA

2011 - 2015

Bachelor of Science. Honors College, University of Vermont.
Major: Integrated Biological Science.

REFERENCES

Dr. Robert Pugliese, Director of Innovation Design, Thomas Jefferson University,
Philadelphia, PA. *robert.pugliese@jefferson.edu*

Dr. Bryan Ballif, Associate Professor: Dept. of Biology, University of Vermont,
Burlington, VT. *bballif@uvm.edu*