

# JESSE A. F. PELZAR

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73 Elmtree Lane. Jericho, NY 11753 | (516) 376-2309

JPelzar1@Binghamton.edu

## EDUCATION:

### Binghamton University, State University of New York – Thomas J. Watson School of Engineering

Bachelor of Science in Computer Engineering

Graduated May 2019

Master of Science in Computer Engineering

Expected May 2020

**Campus Involvement/Awards:** ELC (Entrepreneurship Learning Community) | President

## TECHNICAL SKILLS:

**Programming Languages:** C, Python, Javascript, C++, MATLAB, VHDL

**Relevant Coursework:** Data Structures, Operating Systems, IOS Development, Virtual Reality Development, Augmented Reality IOS Development, Digital Logic Design, Digital Systems Design, Computer Networking, Cryptography.

**Computer Hardware:** Arduino Board, Raspberry Pi, NodeMCU, Intel Realsense, FPGA, IOS, Oculus Rift

## PROFESSIONAL EXPERIENCE:

### Advanced Photonic Sciences, LLC | Friendsville, PA

March '19 – Present

Software Engineer

- Lead Developer and team leader for military based computer vision software using python 3.7 and OpenCV 4.
- Lead Developer in a web based GUI for a three axis laser engraver made with Node.js and Electron.js.

### Loomx, LLC | Jericho, NY

January '17 – Present

CEO / founder

- Lead Developer and team leader encouraging all members to utilize creative thinking used towards the development of our hardware and software
- Loomx specializes in amplifying audio based experiences through the process of programming and designing responsive lighting installations.
- Developed proprietary Controller circuits and firmware including Wifi Integration and web based controls.

### LUMA Projection Arts | Binghamton, NY

July '17 – Oct '18

Software Engineer / Project Lead

- Developed a 3D modeled motion tracked head using an Intel Realsense SR300.
- Project was built in Unity3D using C# for the functionality and Autodesk Maya for the Creation of all 3D assets.
- Coordinated design goals with the LUMA team and gained valuable experience throughout the whole process.

### PhonofixBU – iPhone repairs and vendor | Binghamton, NY

April '14 - May '19

CEO / Founder

- Developed a user friendly website using the Node.JS and AWS SES for Binghamton University students to schedule a repair for their iPhones.
- Over the course of four years, we have successfully repaired 2,000+ iPhones.

### LoomVR – Virtual Reality Language Learning | New York, NY

September '15 – May '17

Software Developer and 3D Designer

- Concepted, designed and developed a virtual reality experience providing an engaging way for people to learn a new language.
- Utilized the programing environment Unity3D and Maya for the developmental process.
- Started and oversaw an independent study at Binghamton University that granted students the opportunity to contribute their skills towards the production of LoomVR.

### Jetti Apps INC | Binghamton, NY

June '16 – Aug '16

CTO / Co-Founder

- Concepted and designed the UI and UX for an event-based social media app called Pulse for Android and IOS.
- Contributed to the front-end development using Swift within the XCode environment.
- Achieved an active user base of 5000+ within the first week of launching.

## TEAM PROJECT EXPERIENCE:

### Service Network for Drones | Binghamton, NY

Sep '18 – Present

- Designing and implementing an autonomous battery swapping platform for drones/UAVs