

# Jason Bud Ginsberg

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## EDUCATION

**Stanford University** CLASS OF 2020  
*MS Computer Science*

**Stanford University** JUNIOR, CLASS OF 2019  
*BS Electrical Engineering, 3.84 GPA*

## SKILLS

Python; Java; C; C++; Objective-C; MATLAB  
JavaScript; Verilog; Unity; OpenGL; SQL; Git.

## AWARDS

**National Young Arts**, *Design Finalist Winner*  
**A16z**, *Gen.D Mentorship Program, Cycle V*  
**American Scholastic Press**, *First Place*  
**USA Biology Olympiad**, *Semifinalist*  
**KPCB**, *Design Finalist*

## SELECTED PROJECTS

### Virtual Reality Head Mounted Display

Built fully functional HMD from scratch with same specifications as the Oculus DK2. Implemented foveated, stereo, and anaglyph rendering; doF and lens distortion correction; positional tracking; ambisonics.

### Localized Space Display

Built a parallax-based head-tracking display. Implemented Kinect SDK for face-tracking and Leap Motion SDK for gesture-tracking in Unity.

## COURSEWORK

- CS 448I Computational Imaging & Display • CS 348V Visual Computing Systems
- EE 267 Virtual Reality • PSYCH 221 Image Systems Engineering • EE 103 Applied Linear Algebra
- EE 102B Signal Processing II • EE 108 Digital System Design • CS 107 Computer Systems

## EXPERIENCE

### Rabbit Hole VR, Project Lead

STANFORD, CA • AUTUMN 2017-PRESENT

“Attenuation-Based 3D Display using Stacked LCDs.” Implemented iterative tomographic reconstruction for image synthesis on a two-layer stack of spatial light modulators. Built with collaborator an unencumbered 3D light field display. Presented at SCIEN Symposium.

### Shape Lab, Research Intern

STANFORD, CA • SUMMER 2017

“shapeShift: A Mobile Tabletop Shape Display for Tangible and Haptic Interaction” SIGCHI ‘18. Scripted Unity VR environment for Volkswagen designers to terraform an actuated pin display. Interfaced multiple IMUs to produce a 3-DOF forward kinematic real-time hand tracking glove.

### Stanford Space Initiative, Satellites Software Team

STANFORD, CA • AUTUMN 2015 – JANUARY 2017

Contributed to PAT satellite to be launched into 550km-polar-synchronous orbit. Programmed PID controller for position-sensitive detector to correct fine steering mirror. Utilized Zemax to evaluate MEMs mirrors.

### Mem. Sloan-Kettering Cancer Center, Imaging Intern

NEW YORK, NY • SUMMERS 2013 & 2014

Refined immunohistochemical technique to test efficacy of cancer therapeutic TH-302. Imaged tumors with a fluorescent microscope and Coolsnap CCD photometric camera. Composited 1,000s of images with Olympus 5.