

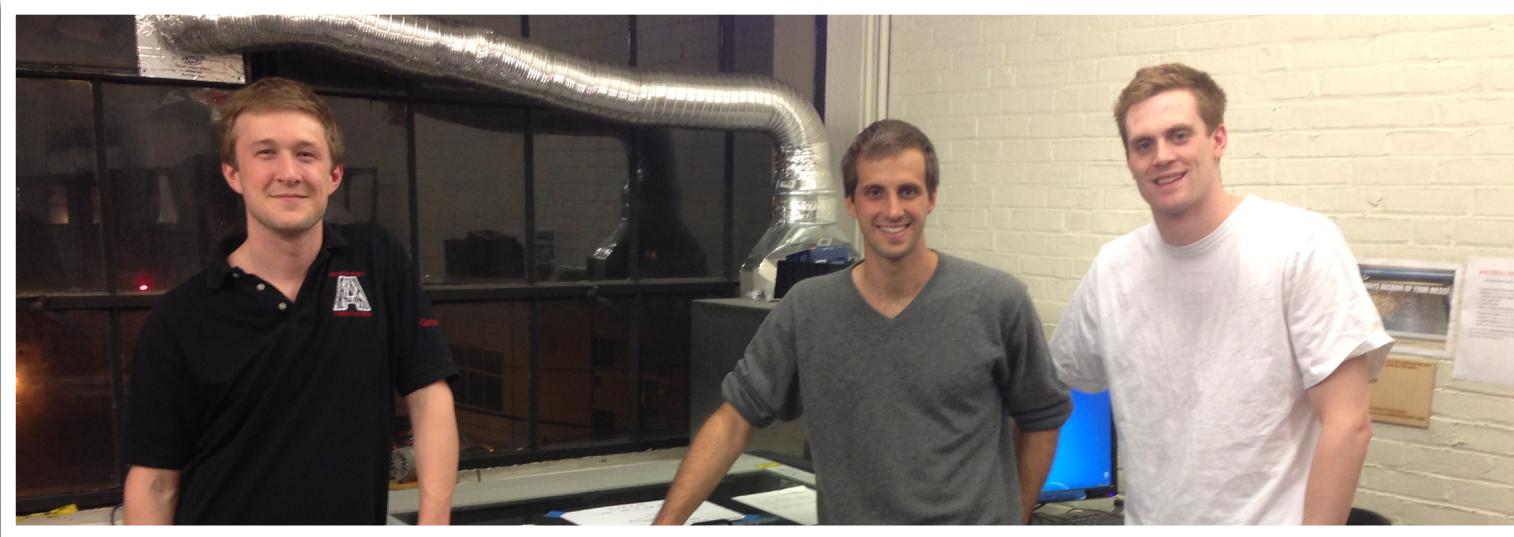
DCBA 3D Scanner

Low cost - High precision - User friendly



3D scanners should be a standard piece of equipment in every studio, workshop, and lab.

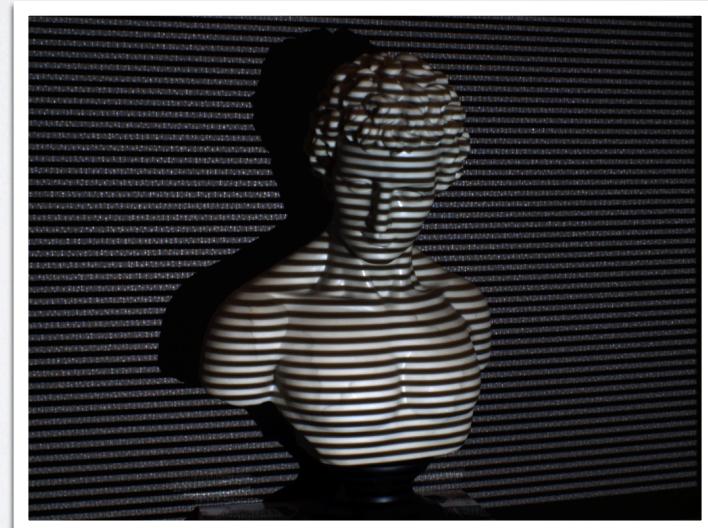
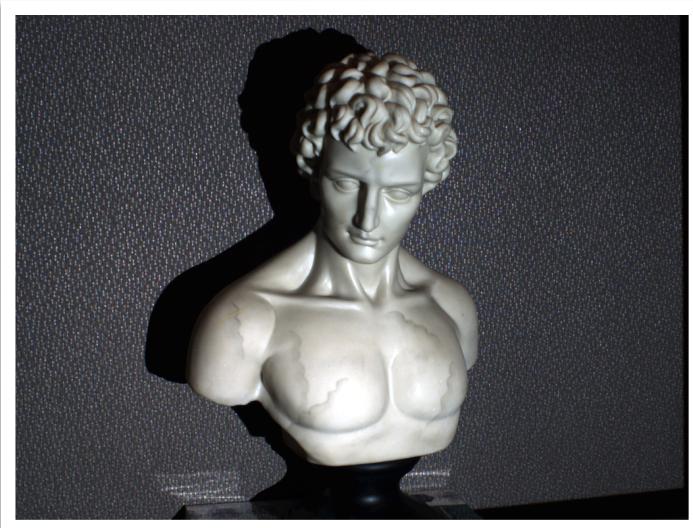
Team + Skill set



- ◆ Gus Downs: Optics and signal processing
- ◆ Troy Astorino: Programming and probabilistic robotics
- ◆ Craig Cheney: Mechanical engineering and embedded systems

Technical Approach

- ◆ Structured light scanning
- ◆ Clever approach to hardware → reduce cost substantially



Product Goals

- Intuitive, clean software interface
- .025mm scan accuracy
- < 5 minute scan time
- 1 ft³ scan volume
- \$500 price point
- Plug and Play



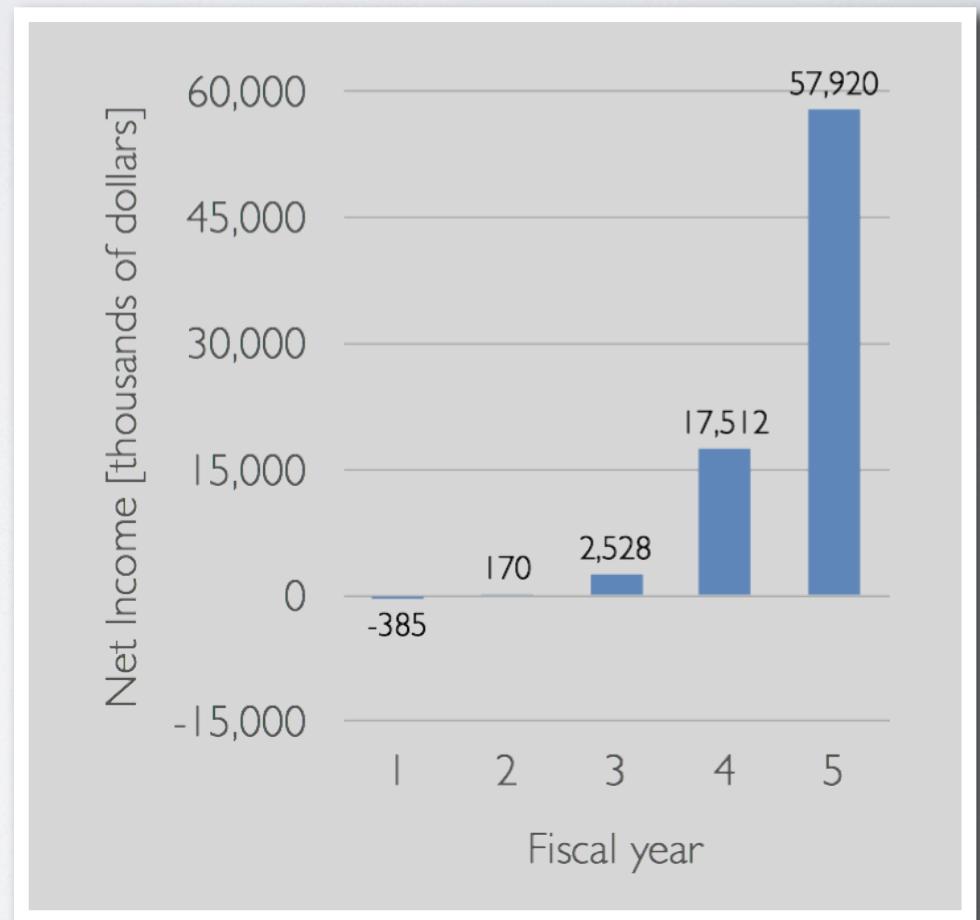
pointcloudlibrary



Open Source Libraries

Market

- ◆ Traditional scanning:
\$5B
- ◆ Industrial 3D scanning:
\$530M



Components List

Component	Cost	Quantity
Stepper motor	\$12.95	1
Bearing	\$4.44	1
Camera Sensor	\$7.89	3
5W Laser	\$17.77	1
6mm FL lens	\$38.00	1
Microprocessor, board, wiring	\$15.00	-
Structure, housing	\$35.00	-

Total: \$146.83

Summer Plans

- ◆ Committed full-time
- ◆ Looking for money, space to prototype,
mentorship, community of entrepreneurs

DCBA

- ◆ Affordable, accurate 3D scanner
- ◆ Technically accomplished team
- ◆ Passionate about our product