Aristos Athens

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Education

Stanford University

- M.S. Mechanical Engineering (3.7/4.0) **9/2017 - 3/2019**
- B.S. Mechanical Engineering (3.6/4.0) **9/2013 - 6/2017**

Experience

Software Engineer **4/2019 –**

Verkada, San Mateo CA

Verkada is a startup seeking to provide modern solutions for physical security.

- Back end + firmware.

Software Engineer **6/2018 - 9/2018**

Deepcell Bio, Mountain View CA

Deepcell is a stealth-mode startup seeking to leverage advances in machine learning, microfluidics, and imaging technology to provide improvements in diagnostic speed and accuracy.

- Wrote C# modules to automate image capture, microscope movement, and alignment.
- Wrote Python scripts to analyze laser data and images of cells in microfluidic channels.
- Improved product accuracy and speed by automating imaging hardware and developing statistical insights on product performance.

Research, Robotic Modelling **12/2017 - 3/2018**

Camarillo lab, Stanford CA

- Developed mathematical models for position estimation of end effector in Auris soft robotic arms.
- Wrote Python controller for setting and following end effector trajectories.
- Improved range and responsiveness of end effector using concentric robotic arms.

Research, Thermosciences **3/2016 - 3/2017**

Ford Motors & Majumdar lab, Stanford CA

- Designed and fabricated counter-flow heat exchangers for use in entropy-driven (“Ionocaloric”) cooling.
- Wrote scripts to automate logging and analysis of temperature and flow data.
- High efficiency exchanger contributed to improved characterization of Ionocaloric redox agents.

Hardware Engineer **6/2015 - 9/2015**

TEAM Laboratories, Davis CA

TEAM is a bio/electro-mechanical prototyping lab which contracts to private companies and UC Davis.

- Designed, prototyped, and manufactured a 3D printer using 3D printing, lasercutting, milling techniques.
- Components include build platform, extruder, filament holder, motor mounts, frame, heating element.
- Assembled functional 3D printer using my components and salvaged electrical controller.

Leadership/Outreach

Residential Assistant, *Stanford Slav Cultural House 2016 – 2017*. **Stanford Energy Club,** *Officer 2015 – 2017*.
Stanford Hellenic American Society, *Vice President 2013 – 2017.* **Math Tutor,** *Cardinal Education 2011 – 2015.*

Skills

Software: Python, C, C++, C#, Go

Hardware: SolidWorks, 3D Printers, Microfluidics, Laser Cutters, Mills