

# Aristos Athens

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## Education

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<b>Stanford University</b>	<b>2017 - 2019</b>
M.S. Mechanical Engineering (3.75/4.0) GRE: Math (170/170), Verbal (167/170)	
<b>Stanford University</b>	<b>2013 - 2017</b>
B.S. Mechanical Engineering (3.6/4.0)	

## Experience

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<b>Internship, Biotech Software - Deepcell Bio, Mountain View CA</b>	<b>6/2018 - 9/2018</b>
<ul style="list-style-type: none"><li>- Wrote control software in C# to automate microscope movement and image capture</li><li>- Wrote image processing scripts in Python to analyze images of cells in microfluidic channels</li><li>- Improved product accuracy and speed by improving cell detection via automation</li></ul>	
<b>Research, Robotic Arms - Camarillo lab, Stanford CA</b>	<b>9/2017 - 3/2018</b>
<ul style="list-style-type: none"><li>- Wrote Python controller for Auris Surgical soft robotic arms</li><li>- Integrated sensor data into closed-loop position controller. Developed mathematical models of robotic arms for position estimation</li><li>- Improved range and responsiveness of end effector using concentric robotic arms</li></ul>	
<b>Research, Heat Exchangers - Ford Motors/Majumdar lab, Stanford CA</b>	<b>3/2016 - 3/2017</b>
<ul style="list-style-type: none"><li>- Designed and fabricated counter-flow heat exchangers for use in entropy-driven ("lonocaloric") cooling</li><li>- Wrote MatLab scripts to communicate with Agilent 34970A datalogger and to log, analyze, and plot temperature and flow data</li><li>- High efficiency exchanger contributed to improved characterization of lonocaloric redox agents</li></ul>	
<b>Internship, 3D Printer Design - TEAM Lab, Davis CA</b>	<b>6/2015 - 9/2015</b>
<ul style="list-style-type: none"><li>- Designed, prototyped, and manufactured a 3D printer using 3D printing, lasercutting, milling techniques</li><li>- Manufactured mechanical components for an Ultimaker 3D printer, including build platform, extruder, filament holder, frame</li><li>- Assembled functioning Ultimaker 3D printer using my manufactured components and salvaged electrical components</li></ul>	
<b>Research, Soft Tissue Biomechanics - Levenston lab, Stanford CA</b>	<b>6/2014 - 9/2014</b>
<ul style="list-style-type: none"><li>- Ran a controlled 2 factor study using irradiated APC (Aluminum Phthalocyanine Chloride) and LOX (Lysyl Oxidase) to promote collagen crosslinking in bovine articular cartilage</li></ul>	
<b>Research, Soft Tissue Biomechanics - Athanasiou lab, Davis CA</b>	<b>8/2011 - 8/2013</b>
<ul style="list-style-type: none"><li>- <b>Published journal article:</b> Induced Collagen Cross-Links Enhance Cartilage Integration, Athens Hu Makris, 2013, PLoS ONE 8(4): e60719. doi:10.1371/journal.pone.0060719</li></ul>	

## Leadership/Outreach

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**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

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**Software:** Python, Go, C#, C, SolidWorks, Altium  
**Hardware:** 3D Printers, Microfluidics, Mills, Lathes, Laser Cutters