

ZARIN DARI

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SUMMARY

- 4 years combined research and engineering experience in cardiovascular modeling, huge animal (pigs) open chest surgery, human endovascular imaging catheter, tissue histology plus advance cell culturing.
- Strong focus on cardiovascular biomechanics, analysis of strain and stress, compare optical coherence tomography (OCT) catheter imaging with ultrasound and histology during hypertrophy.
- Experienced in advance cell culture, cancer cells, endothelial cells transected with florescent markers, plus histology techniques.
- Highly proficient in image processing by utilizing MATLAB and C++.

Computer skills, Tolls and Programming Languages

- C/C++.net, Labview, MATLAB, solid works, Microsoft projects, Excel.

Education

<i>MS, Biomedical Engineering</i>	<i>University of California, Irvine</i>	<i>September, 20XX</i>
<i>BS, Biomedical Engineering</i>		<i>September, 20XX</i>

Research Experience

Endothelial cell signaling, at Beckman laser Institute and Medical Clinic 20XX- present

- Implemented method to investigate recovery time of endothelial cells after applying laser tweezers force on cell membrane.

Application of OCT endovascular catheter, at Beckman laser Institute and Medical Clinic

September, 20XX- present

- Designed, fabricated, and tested BIOMEMS (OCT) endovascular imaging catheter.
- "OCT" imaging catheter was used minimally invasive as a diagnostic tool for the first time in live patients' brain to observe aneurism in brain and heart.
- Research results under publication review at American Journal of Neurology.

3dimentional image processing Beckman laser Institute and Medical Clinic 20XX-20XX

- Obtained 3dimentional-images from 2dimentional OCT images and reconstruct the actual shape of human and animal blood vessels, teeth, and joints.

Preliminary phantom tests, Beckman laser Institute and Medical Clinic 20XX- 20XX

- Designed, fabricated, and tested human cardiovascular phantom to monitor the endovascular catheter path, its durability and functionality.

Engineering consultant, at Irvine Biomedical Company 20XX-20XX

- Radiofrequency ablation of the Pigs' heart tissue, imaged by OCT catheter and correlated with histology, reconstructed of 3dimentional images.

Molecular spectroscopy, Lasers, Flames, and Aerosols Laboratory at mechanical aerospace engineering department 20XX-20XX

- Compute the ideal wavelength of the red beam for nitrogen vibrational coherent anti-stokes Raman spectroscopy (CARS) and compare it to the spectrum of the red beam that enables us to measure the amount of nitrogen present in the gas mixture.

Honors and Awards

- 2007 UROP fellow, Undergraduate Research Opportunities Program
- Dean's Honor list 3 quarters
- Permanent member, Honor Society (AGS)
- Scholarship from California National Bank.