

Sheng-Po Fang

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Summary:

Electrical Engineer with a research experience ranging from developing biodegradable tissue scaffolds for cell regeneration to nano-manufacturing energy harvesting. Flounce in cleanroom fabrication processes.

Specialities:

Nanotechnology, MEMS, Polymer Engineering, Energy, Device Design and Simulation

Education:

Ph.D.	University of Florida, Gainesville, FL, USA, Electrical and Computer Engineering (GPA: 3.49/4.0) (expected)	2016
B.S.	University of Florida, Gainesville, FL, USA, Electrical and Electronics Engineering (GPA: 3.70/4.0, Cum Laude)	2012
A.A.	Miami Dade College, Miami, FL, USA Electrical and Electronics Engineering (GPA: 3.81/4.0)	2010

Experience:

- **Graduate Research Assistant**, Interdisciplinary Microsystems Group, University of Florida, Florida, August 2012 – Present
- **Undergraduate Research Assistant**, Interdisciplinary Microsystems Group, University of Florida, Florida, May 2012 – August 2012

Publications:

1. P.F. Jao, **S.P. Fang**, D.E. Senior, K.T. Kim and Y.K. Yoon, "Nanomanufacturing of large area Carbon nanofibers using tube nozzle electrospinning (TNE), lithography and carbonization processes," *62nd ECTC Conference 2012, accepted*, San Diego, CA, USA,.
2. Pit Fee Jao, **Sheng-Po Fang**, Xiaoyu Cheng, Kyoung-Tae Kim, Gloria J. Kim, and Yong-Kyu Yoon, "An All-Electrospun Nanofiber Based Supercapacitor," *The Inaugural Southeastern Conference (SEC) symposium, Atlanta, GA, Feb. 10 - 12, 2013*

Professional Skills:

- **Design CAD & Simulation Tools:** COMSOL Multiphysics, ANSYS, MATLAB, Ansoft Designer, Ansys HFSS, PSPICE, LTSPICE, Altium Designer AutoCAD, Adobe Photoshop.
- **Programming and Data Acquisition:** Microcontroller programming for MSP, NI Labview, C, ImageJ, Microsoft Office.
- **Fabrication:** MA6 Mask Aligner, EVG Mask Aligner, Reactive Ion Etch, Electroplating, Thermal Metal Evaporator, Atomic Layer Deposition, KJL DC Sputter, Vacuum oven, Lindberg Flow Furnace, Syringe Pump, 30kV Spellman High Voltage Supply, Spin Coater, Pintek High Voltage Measurement.

- **Test and Device Characterization:** Alpha Step Profiler, Scanning Electron Microscope (SEM), Multi-dye color Fluorescence Microscope, Agilent 4294A Impedance analyzer.

Award:

- Miami Dade College **Achievement Award** 2010

Activities and Societies:

- Member, Golden Key (GK) international honor society, Florida Engineering Society (FES)