SWAPNIL NAMEKAR

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193 Laurie Meadows Drive Apt # 265, San Mateo, California - 94403

Experience

- Recently worked as a **Graduate research assistant** in **MEMS/Bio-MEMS** field for 3 years at **University of Hawaii at Manoa**, HI 96822.
- Strong experience in designing and fabricating **micro-biomedical devices** in **clean room facility** for biomedical applications such as cellular manipulations.
- Strong knowledge in **micro-fluidics** and **PDMS device** fabrication.
- Experience in designing and fabricating **smart culture dishes** to culture biological cells in 2D and 3D formats.
- Experience in designing **cantilever mass sensors** for measuring mass of biological cells.
- Good understanding of **material science, polymer science** and **MSDS**.
- Experience in working with **microscopes and lasers**.
- Studied courses such as **Microsensors/Microactuators, Advanced topics in Physical Electronics, MEMS applications in Energy Harvesting, Bio-sensors and bio-actuators** during masters program.
- Studied courses such as **Electric circuit theory, Power Electronics, Power systems, Solid state devices, Machines, H.V. Engineering** during bachelors program.
- Experience in grading courses, **Microelectronic Circuits I and CMOS VLSI Design** at **University of Hawaii at Manoa**, HI 96822.
- Experience in teaching **Power electronics lab, Network analysis lab and Switchgear protection lab** at **University of Pune**, India.
- Worked as a **Quality engineer** at **Finolex cables**, India.
- Worked as a **junior engineer** at **Sai engineering works**, India.

Publications and Patents

- Kelly S. Ishii,Wenqi Hu, **Swapnil A. Namekar**, and Aaron T. Ohta **"**An Optically Controlled 3D Cell Culturing System" **Advances in optoelectronics**, vol 2011, 2011.
- **Swapnil Namekar**, Wenqi Hu, and Aaron Ohta, "Smart cell culture platform" **Provisional U.S. Patent** Application filed 07/09/2010 (Serial No. 61/363,076)
- **Swapnil Namekar** et al. "Single phase induction motor without capacitor triggered by using triac," BS Thesis, University of Pune (2006).
- "An optically addressed thermoresponsive microfluidic system for cell culturing and harvesting," MS Thesis, University of Hawaii at Manoa (2012)

Skills

Languages	**-** Java for processing program
Skills	- Micro-fluidics, clean room work, Image analysis,
Operating System	**-** MS Windows
General Tools	- MATLAB, Coventorware, AutoCAD, Processing program, Image J, Google sketchup, MS Office, Photoshop.

Education

University of Hawaii at Manoa **Master of Science in Electrical engineering**	**Cumulative GPA: 3.6 / 4.0** **May 2012**
University of Pune, India **Bachelors in Electrical Engineering**	**First Class with distinction [GPA: 4.0 / 4.0]** **May 2006**
University of Pune, India **Diploma in Electrical Engineering**	**First Class with distinction [GPA: 4.0 / 4.0]** **May 2003**

References

Prof. Aaron Ohta, EE UHM, aohta@hawaii.edu
Prof. David Garmire, EE UHM, garmire@hawaii.edu
Prof. Olga Boric-Lubecke, EE UHM, olgabl@hawaii.edu
Prof. Vinod Malhotra, EE UHM, malhotra@hawaii.edu