

Fong Ming Hooi

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Profile	Solid background in C/C++, PERL Programming; Numerical methods; Digital signal processing; Medical imaging; Differential equations; Linear system analysis, frequency responses; Computer architecture; Mechanics of solids and biomaterials; Biomedical device design; Probability and statistics.
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Education	M.S./Ph.D, Biomedical Engineering University of Michigan, Ann Arbor, MI <i>Present</i>
	B.S.E, Biomedical Engineering, Electrical and Computer Engineering Duke University, Durham, NC <i>May 2005</i>

Experience	Department of Radiology, BRS Division, Ann Arbor, MI <i>May 2006-present</i> Research Assistant <ul style="list-style-type: none">• Implemented adjoint algorithm for ultrasound image reconstruction of sound speed images• Designed photoacoustic transducer to be fabricated for prostate cancer studies with Field II simulation
	Rackham School of Graduate Studies, Ann Arbor, MI <i>Jan. 2007-Apr. 2007</i> Graduate Student Instructor <ul style="list-style-type: none">• Instructed and supervised medical imaging lab course covering MRI, ultrasound, nuclear medicine, x-ray, and optical CT
	Biomedical Ultrasonics Laboratory, Ann Arbor, MI <i>Aug. 2005-Apr. 2006</i> Research Assistant <ul style="list-style-type: none">• Mastered and simulated speckle tracking concepts in ultrasound• Explored methods to refine traditional cross-correlation speckle tracking methods
	Duke University Medical Center, Durham, NC <i>Oct. 2003-May 2005</i> Research Assistant <ul style="list-style-type: none">• Mastering Insight Toolkit (ITK) to perform image registration with patient data for MRI slice comparison• Developed a content management website for current research project on using magnetic resonance imaging to understand how malignant brain tumors recur and spread• Category 1 Poster acceptance at RSNA 2005 entitled Practical Guide to Image Registration
	Duke Engineering Living Technology Advancement Project, Durham, NC <i>Aug. 2003-Aug. 2004</i> R&D Summer Intern <ul style="list-style-type: none">• Created database for content management and encrypted login system with PHP/MySQL• Researched and simulated clock buffer circuits in SPICE• Designed schematics for system integration in the SmartHouse Energy and Systems Team Leader <ul style="list-style-type: none">• Designed a cost-effective photovoltaic system for the SmartHouse• Managed a team and delegated tasks for efficient research