

CHI VAN PHAM

CONTACT INFORMATION	Microwave Microsystems Laboratory Kemper Hall Room 2212 UC Davis	(530)312-2149 cvpham@ucdavis.edu ece.ucdavis.edu/ ~ cvpham
EDUCATION	Ph.D. Electrical and Computer Engineering University of California, Davis Advisor: Prof. Anh-Vu Pham	<i>Expected 2018</i>
	M.S. Electrical and Computer Engineering. GPA: 3.8/4.0 University of California, Davis	<i>2013-2015</i>
	B.E. Electrical Engineering (with highest honors) Hanoi University of Science and Technology (HUST), Hanoi, Vietnam Advisor: Prof. Vu-Van Yem	<i>2007-2012</i>
EXPERIENCE	Microwave and Microsystems Laboratory, UC Davis <i>Graduate Student Researcher</i>	<i>Oct. 2013 - present</i>
	<i>Research topic:</i> Wireless Power/Data Transfer System, Signal Integrity, Applied Electromagnetics, RF front-end module and system	
	<ul style="list-style-type: none">• Developing bidirectional, inductive power transfer and communication system through metal• Developing voltage tunable multiferroic materials for RF passive components• Developed a solution to identify and locate Passive intermodulation (PIM) sources on base station antenna• Developed a fully automated fault testing program for Huawei's base station antenna system• Developed broadband coaxial balun for 600 W radar applications• Developed Multiphysics (Electromagnetic-Thermal-Structural) analysis for high power microwave passive components• Developed ultra-wideband, low loss and compact balun using Double Defected Ground structures on multilayered Liquid Crystal Polymer (LCP)	
	RF and Microwave Laboratory, HUST <i>Research Assistant</i>	<i>Sept. 2010 - Aug 2013</i>
	<i>Research topic:</i> Development of novel artificial structures for wide-band antenna and passive component designs	
	<ul style="list-style-type: none">• Developed Ultra-Wideband (UWB) antenna based on optimal Fractal shapes and Complementary Split Ring Resonator (CSRR) structure• Designed high-gain and broadband antenna using Electromagnetic Bandgap structures• Miniaturized novel MIMO antenna and stop-band filter using Left-handed materials• Investigated Single-Loop Opto-Electronic Oscillators based on Yao-Maleki model	
PUBLICATIONS	Journals	
	<ul style="list-style-type: none">• Chi Van Pham, Nguyen L.K. Nguyen, Tuan-Anh Vu, A.V. Pham, and C. S. Garner, "Design and Optimization of High-Efficiency Wireless Power Transfer System Through Metal," <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> (under review)• Chi Van Pham, A. V. Pham and R. E. Leoni, "Design of 600 W Low Loss Ultra-wideband Ferriteless Balun," <i>IEEE Transactions on Microwave Theory and Techniques</i>, vol. pp, no. 99, pp. 1-9, Nov. 2017.	

Conferences

- **Chi Van Pham**, Vu Tuan Anh, William Tran, A. V. Pham and C. S. Gardner, "Wireless Energy Harvesting System Through Metal for Aerospace Sensor," submitted to *IEEE Transportation Electrification Conference and Expo Components, Systems, and Power Electronics (ITEC 2018)*, Long Beach, CA, Jun. 2018
- **Chi Van Pham**, B. Sawtelle, S. Imbach, A. V. Pham and Jironghe, "An automated fault detection program for multichannel bandwidth-limited system," *IEEE 89th ARFTG Microwave Measurement Conference (ARFTG)*, Honolulu, HI, pp. 1-4, Jun. 2017.
- **Chi Van Pham**, A. V. Pham and C. S. Gardner, "Development of Helical circular coils for wireless through-metal inductive power transfer," *IEEE Wireless Power Transfer Conference (WPTC)*, Taipei, Taiwan, pp. 1-3, May 2017.
- **Chi Van Pham**, Binh Pham, A. V. Pham and R. E. Leoni, "A 461 bandwidth ratio balun on multilayer organic substrate," *IEEE MTT-S International Microwave Symposium*, Phoenix, AZ, pp. 1-3, May 2015.
- **Chi Van Pham**, Vu Van Yem, and Nguyen Xuan Quyen, "A Novel CPW-fed Fractal Antenna for UWB with Dual Notched-bands," *IEEE International Conference on Advanced Technologies for Communications (ATC)*, pp. 590-594, Oct. 2015.
- Vu Van Yem, **Chi Van Pham**, and Bernard Journet, "Novel high gain and broadband CPW-fed antennas with EBG for ITS applications," *IEEE International Conference on Advanced Technologies for Communications (ATC)*, pp. 451-456, Oct. 2013.
- Pham Toan Thang, **Chi Van Pham**, Vu Van Yem, and Bernard Journet "Simulation and experimental study of single-loop optoelectronic oscillator," *IEEE International Conference on Advanced Technologies for Communications (ATC)*, pp. 680-685. Oct. 2013.
- **Chi Van Pham**, Vu Van Yem, and Bernard Journet, "Novel MIMO antenna Using Complementary Split Ring Resonators (CSRrs) for LTE Applications," *IEEE International Conference on Advanced Technologies for Communications (ATC)*, pp. 222-226, Oct. 2012.

HONORS AND AWARDS

- IEEE MTT-S Graduate Fellowship *Jan. 2016*
- PhD Student Sponsorship Initiative, MTT-S *May 2015*
- Spring 2015 ECE Program Fellowship *June 2012*
- Spring 2015 TA Fee ECE Fellowship *June 2015*
- Spring 2015, 2017 ECE Travel Grant *May 2015, 2017*
- Spring 2015 NRST Fellowship *Mar. 2015*
- Vietnam Education Foundation Fellow *Aug. 2012*
- First place in the "Student's Scientific Research Contest", HUST *June 2012*
- President's Student Leadership and Service Award, HUST *2009-2011*
- Ministry of Education and Training Annual Scholarship for excellent students *2007-2011*

TECHNICAL SKILLS

- CAD Tools: Circuit and Electromagnetic simulators: LTspice, Keysight: ADS and EMPro, ANSYS packages: Maxwell - HFSS and Multiphysics, CST Microwave Studio, Sonnet, AWR Microwave Office; PCB design: Altium Designer, OrCAD.
- Measurement: Anechoic chamber test, On wafer measurement (PNA/PNA-X), VNA, BERT, Sampling and Real-time oscilloscopes, TDR/High-speed modules, SPI/GPIB Programming
- Microfabrication: Electroplating
- Programming Languages: LaTeX; C/C++; MatLab; Python
- Conference Reviewer: IEEE ATC (2014, 2015, 2016), IEEE ICCE (2014, 2016)
- Teaching Assistant: Circuit I (ENG17), Circuit II (EEC100)

REFERENCES

Available upon request.