Christian W. Hearn, Ph.D., P.E.
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Education

• Virginia Tech	Electrical Engineering	Ph.D.	2012
• Virginia Tech	Electrical Engineering	M.S.	2001
• Old Dominion University	Electrical Engineering Technology	B.S.	1997
• Virginia Tech	Mechanical Engineering	B.S.	1989

Ph.D. Dissertation: *Electrically Small-Antenna Performance Enhancement for Near-Field Detuning Environments,* Ph.D. advisor William A. Davis, Director - Virginia Tech Antenna Group.

Employment

• Associate Professor	Weber State University	07/01/17 present
• Assistant Professor	Weber State University	07/01/12 - 06/30/17
• Research Engineer[1]	Applied EM. Inc.	01/01/06 - 06/30/12
• Instructor	Old Dominion University	01/01/04 - 05/30/08
• Electrical Engineer	Nanosonic, LLD	05/01/03 – 12/31/03
• Mechanical Engineer[2]	Naval Surface Warfare Center	09/01/89 - 06/30/97

[1]Conducted research during entire plan-of-study as a part-time employee for Applied EM under the direction of my advisor (Dr. W.A.Davis – VTAG) and AEM supervisor (Mr. T.G. Campbell, Fellow IEEE). In addition to responsibilities as a Ph.D. student, I developed and maintained several small research opportunities with sponsors.
[2]Professional Engineer (Mechanical) Virginia

Journal Articles

1. Hearn, C.W., Newton, D.S., Hansen, Hansen, T.x., Birch, D.S., and Chatlin, S.L., *Open-Source Antenna Pattern Measurement System: Development and Applications*, AMTA Special Section IEEE Trans. Instr & Msmt (TIM) (submitted 5/5/21-under review)
2. Hearn, C.W., Kuznicki, Becker, Derr, and Ramirez, *Data Acquisition in Wireless Router Link Testbed using GNU Radio Companion*, Technical Proceedings for the 6th GNU Radio Conference in Boulder CO, September 2016.
3. Hearn, C.W. and Davis, W.A., *FEKO Simulation of Multi-Resonant Low-Profile PIFA*, Applied Computational Electromagnetics Society Journal, October 2015, Vol. 30, No. 10, ISSN 1054-4887, pp 1041-1045.

Recent Conference Papers

1. Hearn, C.W., Birch, D.S.,Newton, D., Chatlin, S.L., *Open-Source Antenna Pattern Measurement System*, Antenna Measurement Techniques Association (AMTA), Nov 2-5, 2020, (Virtual Format)
2. Hearn, C.W., *Open-Source Antenna Pattern Validation Using FEKO*, Applied Computational Electromagnetic Society (ACES), March 22-24, 2020, Monterey, CA (Virtual Format)
3. Hearn, C.W., *Open-Source Antenna Pattern Measurement System*, Utah RF & Wireless Day 2019, Sept 2019, Brigham Young University, Provo UT
4. Hearn, C.W. and Chiou, *IEEE-SME EET Exam, Program Adjustments and Lessons Learned* 2017 Conference for Industry and Education Collaboration (CIEC), February 8-10, 2017, Orlando, FL
5. Hearn, C.W. and Chiou, *Collaborating Solar Education with Solar Industry*, 2016 Conference for Industry and Education Collaboration (CIEC), February 3-5, 2016, Austin, TX
6. Marojevic, V., Goff, R., Dietrich, C.B., Yang, T., Hearn, C.W., *Wireless Communication Testbed and Tools for Authentic STEM Learning*, 122nd ASEE Annual Conference and Exposition, June 14-17, 2015, Seattle, WA
7. Hearn, C.W. and Davis, W.A., *FEKO Simulation of Multi-Resonant Low-Profile PIFA*, 31st Int'l Review of Progress in Applied Computational Electromagnetics, March 22-26th, 2015, Williamsburg, VA

Fellowships

- Department of Energy – Visiting Faculty Program, Summer Fellowship at Idaho National Laboratory – May-July 2016, June-August 2017