

MATTHEW P. RUFFNER

Advisor:	Dr. Daniel L. Lau
Position:	PhD Student, Electrical and Computer Engineering
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(a) Education & Training

University of Kentucky	Lexington, KY	Ph.D. in Electrical Engineering	2019 –Current
University of Kentucky	Lexington, KY	M.Sc. in Electrical Engineering	2017 –2019
University of Kentucky	Lexington, KY	B.Sc. in Electrical Engineering	2013 –2017
University of Kentucky	Lexington, KY	B.Sc. in Computer Engineering	2013 –2017
University of Kentucky	Lexington, KY	B.Sc. in Computer Science	2013 –2017

(b) Personal Statement

This is where I talk about what all I have done which is mostly go to school, start a business, file a patent and make cool stuff.

(c) Positions and Employment

2017 - 2019	Graduate Research Assistant, University of Kentucky Electrical and Computer Engineering Department
2019	ROS Intern, Badger Technologies, Nicholasville, KY
2016 - 2017	Undergraduate Research Assistant, University of Kentucky Electrical and Computer Engineering Department
2016 - 2017	Hardware/Software Research Engineer, MosquitoMate, Inc.
2013 - 2015	Undergraduate Research Assistant, University of Kentucky Computer Science Department

(d) Publications

1. Matthew P. Ruffner, Ying Yu, and Daniel L. Lau. Structured light smart camera for spatial augmented reality applications. In Michael R. Douglass, John Ehmke, and Benjamin L. Lee, editors, *Emerging Digital Micromirror Device Based Systems and Applications XI*, volume 10932, pages 85 – 95. International Society for Optics and Photonics, SPIE, 2019.
2. John D. Schmidt, James T. Nichols, Matthew P. Ruffner, Ryan D. Nolin, William T. Smith, and Alexandre Martin. *Kentucky Re-Entry Universal Payload System (KRUPS): Design and Testing for Hypersonic Re-Entry Flight*.
3. John D. Schmidt, James T. Nichols, Matthew P. Ruffner, Ryan G. Nolin, William T. Smith, and Alexandre Martin. *Kentucky Re-Entry Universal Payload System (KRUPS): Design and Testing for Orbital Flight*.
4. Ying Yu, Daniel L. Lau, and Matthew P. Ruffner. 3D scanning by means of dual-projector structured light illumination. In Michael R. Douglass, John Ehmke, and Benjamin L. Lee, editors, *Emerging Digital Micromirror Device Based Systems and Applications XI*, volume 10932, pages 117 – 125. International Society for Optics and Photonics, SPIE, 2019.
5. Ying Yu, Daniel L. Lau, Matthew P. Ruffner, and Kai Liu. Dual-projector structured light 3d shape measurement. *Appl. Opt.*, 59(4):964–974, Feb 2020.