

# GORDON CHRISTIE

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## EDUCATION

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- Virginia Tech, Blacksburg, VA, USA** May 2013 - Nov 2016  
Ph.D. in Computer Engineering  
Dissertation title: Collaborative Unmanned Air and Ground Vehicle Perception for Scene Understanding, Planning and GPS-denied Localization  
Advisor: Kevin Kochersberger, Co-advisor: Dhruv Batra  
GPA: 3.87/4.00
- Virginia Tech, Blacksburg, VA, USA** Aug 2011 - May 2013  
M.S. in Computer Engineering  
Thesis: Computer Vision for Quarry Applications
- University of Hertfordshire, Hatfield, UK** Spring 2009  
Study abroad
- West Virginia University, Morgantown, WV, USA** Aug 2006 - May 2011  
B.S. in Computer Engineering  
Summa Cum Laude + full-tuition scholarship for 4 years

## RESEARCH INTERESTS

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Perception for unmanned vehicle systems using computer vision, machine learning, and path planning.

## EXPERIENCE

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- Virginia Tech - Unmanned Systems Lab** May 2012 - Present  
Graduate Research Assistant  
Blacksburg, VA
- My research involves using computer vision, machine learning, and path planning for applications of unmanned systems. I primarily develop algorithms to process 3D point clouds and 2D images to understand an unknown scene. I am first-author on several publications as a result of my work here.
- Army Research Laboratory** May 2016 - Aug 2016  
Visiting Researcher  
Adelphi, MD
- Worked on a project to localize a UGV in an 2.5D aerial map generated from imagery captured by a low-flying UAV using images and LiDAR.
- Windstorm Technologies LLC** Jul 2013 - Present  
Co-founder  
Blacksburg, VA
- Startup company involved in developing vision systems for quarry applications.
  - <http://www.windstormtechnologies.com/>
- Virginia Tech - Computer Engineering Lab (CEL)** Aug 2011 - May 2012  
Graduate Teaching Assistant  
Blacksburg, VA
- Class: Microprocessor Systems
- West Virginia University** May 2011 - Aug 2011  
Teaching Assistant  
Morgantown, WV
- Classes: Introduction to Electrical Engineering Lab (Summer I), Digital Electronics (Summer II)
- West Virginia High Technology Consortium Foundation (WVHTCF)** Jun 2010 - Aug 2010  
Intern  
Fairmont, WV
- Software and hardware engineering for UAV applications
- Unrelated work experience:** West Virginia WISE Library (Aug 2008 - Dec 2008), Lowe's Home Improvement (Summer 2007, Dec 2007), Carvel Ice Cream (Sep 2005 - Jul 2006), 300+ hours volunteering (2003-2005) at Ruby Memorial Hospital, Morgantown, WV

## TECHNICAL STRENGTHS

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<b>Programming Languages</b>	MATLAB, Python, C/C++, HTML
<b>Libraries</b>	OpenCV, VLFEAT, LIBLINEAR/LIBSVM
<b>Tools and Software</b>	git, LaTeX, JabRef, Linux