

# JOHN MORRISON

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## EMPLOYMENT

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**The MITRE Corporation** Bedford, MA

July 2011 – June 2013

*Software Engineer*

- Worked on C++ structure from motion software in support of an Air Force UAV program
- Improved team's software development practices and led transition to CMake and Git
- Developed software to improve streaming and degraded UAV telemetry
- Worked extensively on video processing and network communication in a multithreaded application

## EDUCATION

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**The George Washington University** Washington, DC

*PhD*, August 2013 – Present

*Research*: Realtime robotic perception in challenging environments

**Bowdoin College** Brunswick, ME

*Bachelor of Arts*, May 2011

*Major*: Computer Science *Minor*: German

**Computer Science GPA**: 3.78

*Relevant Coursework*: AI, Algorithms, Cognitive Architecture, GIS, Robotics

**Cumulative GPA**: 3.56

**Technische Universität** Berlin, Germany

Spring 2010

*Courses*: Database Systems, Computer Organization

**GPA**: 4.00

## PUBLICATIONS

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- John Morrison, Eric Chown, and Bill Silver. 2013. "Implementing a Real-Time Hough Transform on a Mobile Robot." In *RoboCup 2012: Robot Soccer World Cup XVI*, edited by Xiaoping Chen et al., 7500:322–331. Lecture Notes in Computer Science. Springer Berlin Heidelberg

## COLLEGE EXPERIENCE

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**Bowdoin College Northern Bites RoboCup Team**

Fall 2007 – Spring 2011

*Captain, World-Class Robotics Team*

- Implemented vision algorithms (C++), developed autonomous robotic soccer player behaviors (Python), and built offline debugging tools (Java)
- Captained team of 10 undergraduate students during 2010 - 2011 year
- Presented Senior Honors thesis at 2012 RoboCup Symposium

**Bowdoin College Computer Science Department**

Fall 2010 – Spring 2011

*Teaching Assistant*

- Ran study group for CS 210 - Data Structures
- Tutored students in intermediate CS concepts
- Helped students with programming assignments

## HONORS AND AWARDS

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- Bowdoin College Computer Science Senior-Year Prize, 2011
- Senior Honors Project in Computer Science, 2010-2011
- Freedman Summer Research Fellowship in Computer Science, 2010
- Maine Space Grant Consortium Summer Fellowship, 2009
- Sarah and James Bowdoin Scholar (Dean's List), 2007-2008
- Vigil Honor, Order of the Arrow, Boy Scouts of America, 2007
- Eagle Scout, Boy Scouts of America, 2006

## RELEVANT SKILLS

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- Assembly
- Bash scripting
- C/C++
- CMake
- Git
- Java
- MATLAB
- Python
- R