



# George McWilliams

**B.S. in Electrical and Computer Engineering (2004)**

**M.S. in Electrical and Computer Engineering (2006)**

**Robotic Research, LLC , Clarksburg, MD**

## **Describe your overall duties/responsibilities as Director of Advanced Programs:**

I lead some of our major engineering programs related to unmanned vehicles and GPS-denied localization. My current effort is leading a design team for a hybrid air/ground robot. I manage a team of about 20 engineers, ensure the program is running within budget, set up demonstrations for customers, and in my spare time I get to develop embedded software for our robots.

## **Explain the skills/abilities that are required for being successful in your role:**

Multi-tasking was not one of my strengths several years ago, but it's almost a requirement for a working at a diverse, fast-paced small business. Being organized and being capable of clearly communicating ideas and designs to co-workers and customers is also very important.

## **What advice would you give to students who are considering majoring in Electrical and Computer Engineering?**

First, make sure you love what you're doing. Even if you're a live-to-work type of person, you shouldn't be wasting 40+ hours per week doing something that you don't love. Second, make sure you understand the fundamentals of your field. I can't count the number of times I wished I had paid more attention during a certain linear algebra class or signal processing class. Knowing the fundamentals can make an engineer so much more productive at his/her job.

