

# Kyle M King

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## EDUCATION

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**University of Maryland, College Park, MD**  
Bachelor of Science, Bioengineering  
Minor, Computer Science

GPA: 3.88 / 4.00  
*Expected May 2016*

**Team BIKES Product Driver:** Gemstone Honors College

*Expected Citation May 2016*

- Prototype design and function of a Meteor web application in JavaScript for alpha trial
- Propose alternative bike locating plan with estimated cost reduction of 50%+ per bike
- Invent unique bike lock design meeting both BikeUMD optimal outcomes, while improving ease of use

**Fast-paced Targeted Innovator:** QUEST Honors Program

*Expected Citation May 2016*

- Make recommendations to improve process flow for the Academic Computers for Terps to remove 10-20% of wasted time during customer visits
- Create a business model and concept for both a laptop security device and a food storage application each in under 4 weeks from prompt to pitch

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## EXPERIENCE

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**Microfluidics Researcher:** MEMS and Microfluidics Laboratory

*February 2014 - Present*

- Research acoustofluidic sorting of cancer cell-targeted liposomes using MEMS
- Pioneer for selective swelling optic enhancement technique for on-chip immunoassays
- Develop water in oil emulsion technique to generate 10-20  $\mu\text{m}$  Agarose beads at rate of 10 beads/sec

**Team Mechanic and Rider:** 4K for Cancer

*December 2013 - August 2014*

- Raised \$5,450 to bike across the United States for the Ulman Cancer Fund
- Self-taught HTML/Jade, CSS/SCSS, JS/CoffeeScript, JQuery, and Grunt/Gulp for front-end development of personal website: [BikingAgainstCancer.com](http://BikingAgainstCancer.com)

**Founder and Mentor:** Medical Device Design Team

*November 2013 - Present*

- Recruit 12+ multidisciplinary students to design low-cost surgical lamp

**Trip Leader and Instructional Bike Mechanic:** MAP

*August 2013 - Present*

- Direct 8 trips to varying environments with strong regards for participant safety, group development, and experiential learning with participants between ages 18 to 65

**Genetics Researcher:** The DasSarma Laboratory at IMET

*April 2013 - August 2013*

- Designed and produced 6 mutant plasmids for *Halobacterium* expression and study
- Contributed to a paper to be published in Winter 2014

**Ecosystem Governance Analyst:** SustainaMetrix

*May 2011 - January 2014*

- Constructed 3 due-diligence briefings and collected content into timeline for consulting process
- Coauthored two publications optimizing Coastal Zone Management with NOAA

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## Awards

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**SEEDS Research Fellowship:** University of Maryland

*October 2014 - May 2015*

**Dean's List:** University of Maryland

*August 2012 - Present*

**Eagle Scout Award:** Troop 792

*December 2010*

- Awarded for orchestrating a 100+ man-hour volunteer project for the Maryland Zoo in Baltimore, along with 2 year as Patrol leader, and service from 2006-2012

**Junior Keeper of the Year:** Maryland Zoo in Baltimore

*September 2010*

- Contributed 630 volunteer hours as a Volunteer Junior Keeper

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## Skills

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Web Development, Git, Matlab, C, Command Line, MeteorJS, Droplet Generation, Optical Microscope