

Kyle M King

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EDUCATION

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

EXPERIENCE

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 μm 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

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

May 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

Awards

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

Skills

Coding Proficiencies: HTML, CSS, JS, JQuery, Git, Matlab, C, LaTeX, Command Line, MeteorJS

Lab Proficiencies: DNA Isolation, Droplet Generation, Optical Microscope, 3D Printing

Exposure: Adobe Illustrator and Photoshop, Sketch, Wordpress, CNC, Autodesk Inventor