Vincent Kee

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Education

Massachusetts Institute of Technology (MIT) **Cambridge, MA**
Candidate for Bachelor of Science in Electrical Engineering and Computer Science *June 2016*
Candidate for a Minor in Mechanical Engineering
Relevant Coursework: Introduction to Electrical Engineering and Computer Science I, Toy Product Design

California Academy of Mathematics and Science (CAMS) **Carson, CA**
GPA: 4.0 (unweighted); SAT: 2210; ACT: 34 *June 2012*

Research

CELEST Neuromorphics Lab, Boston University **Boston, MA**
Research Intern *July - August 2011*

- Tested feasibility of optic-flow based navigation for autonomous robots under guidance of post doctorate researchers and professors in BU CELEST Neuromorphics Lab
- Developed optic-flow detecting filters and navigational algorithms in MATLAB and applied them to iRobot Creates equipped with webcams for image feeds
- Presented paper and poster to Boston University Integrated Circuits and Systems group and approximately fifty people at Boston University public poster session

Leadership

CAMS Engineering Design and Development **Carson, CA**
Project Manager *August 2011 - June 2012*

- Planned, executed, and completed yearlong project in autonomous modular component robotics with $1,000 budget constraint and 16 person team
- Set project milestones, task dependencies, developed work and resource breakdown structure, managed team, and served as liaison between team and client
- Completed project and met all requirements and produced deliverables at the five Critical Design Reviews (System Performance Specification Proposal, Proof of Concept, Technical Data Package, Mission Performance, Trade Show Exposition)

CAMS FIRST Robotics **Carson, CA**
Systems Engineer *August 2011 - June 2012*

- Conducted Requirements Analysis to focus design effort following Waterfall Model
- Coordinated design efforts of Mechanical and Control subteams and served as liaison between the Design and Manufacturing subteams
- Oversaw creation of robot Technical Data Package per ASME Y14.5

Articulation Leader *August 2010 - June 2011*

- Managed 10-person Articulation subteam and collaborated with Systems Engineers and Drive leaders to integrate subsystems using Autodesk Inventor
- Worked with industry mentors to implement industrial design standards, stress test all manufactured parts and assemblies, and manufacture parts on HAAS CNC Mills
- Designed and built first working articulation system in recent team history

Technical Skills

Languages: MATLAB, C++, Java, Python, LaTeX, BASIC

Mechanical Engineering: ASME Y14.5, Autodesk Inventor, Mastercam, CNC Mill, Conventional Mill, Lathe Operation

Activities and Interests

MIT Solar Electric Vehicle Team *Electrical Subteam Member* *September 2012 - Present*

MIT Cru *Member* *September 2012 - Present*