Vincent P. Kee

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Objective To obtain a position where I can develop skills in the Electrical Engineering, Computer Science, or Mechanical Engineering fields and gain work experience.

Education

Massachusetts Institute of Technology **Cambridge, MA**
Candidate for Bachelor of Science in Electrical Engineering and Computer Science June 2016
Relevant Courses: Physics I, Multivariable Calculus

California Academy of Mathematics and Science **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

- Worked alongside researchers in BU CELEST Neuromorphics Lab testing feasibility of optic-flow based navigation for autonomous robots
- Developed optic-flow detecting filters and navigational algorithms in MATLAB and applied them to iRobot Creates equipped with webcams for image feeds
- Successfully implemented algorithm for navigation in textured environment
- Presented paper and poster to research group and public

Leadership

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

- Responsible for planning, execution, and completion of 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
- Successfully completed project – 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
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 mentors from industry 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

Skills

Programming: MATLAB, C++, Java, BASIC
Mechanical Engineering: ASME Y14.5, Autodesk Inventor, Mastercam
Machine Shop: HAAS CNC Mill Operation, Conventional Mill, Lathe, Drill Press Operation
Microsoft Office: Word, Excel, Powerpoint