ROHAN KAMATH

Address:-
119 Quillen Ct, Apt. 201, Escondido Village,
Stanford University, CA-94305

Phone:- 650-842-0854
Email:- rdkamath@stanford.edu
http://sites.google.com/site/rohandkamath/

OBJECTIVE: To study further in the field of Artificial Intelligence, Robotics and Machine Learning.

EDUCATION:
Stanford University, California, USA.
MS - Computer Science **(Current Student)**

Smt. Kashibai Navale College of Engineering, University of Pune.
Bachelor of Engineering in Computer Engineering, August 2010
B.E. Aggregate – 69.47%

SYSTEMS EXPERIENCE AND PROFICIENCY:
Operating Systems :- Windows, Mac OS, Linux, Windows –CE
Programming Languages :- C/C++, Java, Javascript, HTML ,SQL, PHP, VB.NET, Assembly Programming

ACADEMIC PROJECT:

- **Real Time Traffic Congestion Control System(Final Year Project)**
  - Develop an intelligent system that measures the density of vehicles at a traffic signal.
  - Develop an algorithm that dynamically changes the timers of the signals based on the measured data.
  - Install a backup manual mode, where a police officer can control the signals using an RF remote control.

OTHER PROJECTS:

- **Arthrobot - A biped walking robot**
  - Built a two-legged robot which was capable of following a line, climbing stairs, side-stepping obstacles, walking (and rolling when needed) over uneven terrain and also maintaining static as well as dynamic balance on one leg for an infinite period of time.

- **Synchronized Robots - Manual+Autonomous**
  - Built a pair of manual and autonomous robots that worked in collaboration to clear obstacles. The manually controlled robot would pass an object to the autonomous one who would then carry it to a pit and unload it there. This task could be repeatedly performed until all the objects were cleared. D.C. motors were used for navigation while servo motors were used for manipulation.

- **Insectronics - A six-legged walking robot***(hexapod)*
  - Built a six-legged autonomous walking robot with obstacle detection and route re-calculation capabilities using servo motors for navigation and analog infrared sensors and bump sensors for vision.

- **Line Follower Robot with Obstacle Detection and Removal**

TEACHING EXPERIENCE:
- Resource person for multiple seminars and lectures on elementary and autonomous robotics in various Engineering institutes across Pune.
- Conducted workshops on simple differential drive robots as well as line-follower robots in over 10 Engineering institutes across Pune.

ACHIEVEMENTS:
- Multiple National and International awards for robotics projects.
  (Please find details below under the title "Undergraduate Achievements")
- Received ***"Best Outgoing Student Award"*** in the Final Year at SKNCOE.
- Received ***"Best Student Award"*** in Second Year at SKNCOE.
- Multiple awards for excellence in mathematics at High School level.
  (Please find details below under the title "Achievements at school")

ROHAN KAMATH

Address:-
119 Quillen Ct, Apt. 201, Escondido Village,
Stanford University, CA-94305

Phone:- 650-842-0854
Email:- rdkamath@stanford.edu
http://sites.google.com/site/rohandkamath/

EXTRA-CURRICULAR

- Work as volunteer with eco-conservation societies like Foliage Outdoors(Pune), Friends for Tigers(Mumbai) and Tiger Watch(Ranthambhore National Park)
- Tiger Conservation Task for Ranthambhore National Park from 1st July 2006 to 15th July 2006 by Forest Department of India.
- 1st place in HSBC Pune Bird Race in 2010.
- 1st place in HSBC Pune Bird Race in 2009.
- 2nd place in HSBC Pune Bird Race in 2008.
- Actively participated as "Corporate Relations Manager" in SKNCOE's INVIGOR'09, a national level event.
- Event Coordinator of Ecofest-2009(a wildlife short film festival and competition).
- Event Coordinator of Ecoscope-2010(a wildlife photography exhibition).
- Eco-conservation-Spread the message of saving the environment through various camps and seminars for school and college students.
- Ornithology-Observation of bird life and migration patterns in India and teaching school children the same.
- Herpetology-Snake observation and rescue.
- Wildlife Photography- Documenting Indian wildlife through image.

Undergraduate Achievements

1. Won "First Place" in National rounds and "Third Place" in the International rounds of "Arthrobot-The International Legged Robotics Challenge", held at IIT-Bombay in January 2009.
2. Won "Best Design Award" at "Techfest: Vertigo" – a robotics competition involving a manual and autonomous robot, held at IIT-Bombay in January 2008.
3. 2nd Place at "Techfest: Nexus" – a national level robotics competition held by IIT-Bombay at COEP, Pune.
4. 2nd Place at "Forsaken" – an autonomous robotic contest held at BVP, Pune.
5. 3rd Place at "Vitality: League of Machines" – autonomous line tracer race held at VIT, Pune.
6. Conducted workshops on basic robotics and advanced robotic navigation at Sinhgad Institutes, Pune.
7. Received "Best Outgoing Student Award" in the Final Year at SKNCOE.
8. Received "Best Student Award" in Second Year at SKNCOE.

Achievements at School

Scholarships and Prizes Won:
1. Ranked 3rd in the "Millennium Talent Search Examination" at the XV National Level Science Talent Search Examination conducted by United Council for Educational Research and Scientific Advancement in Learning.
2. Maharashtra Talent Search Examination Ranked 3rd and awarded district scholarship in 2002.
3. Maharashtra Talent Search Examination Ranked 2nd and awarded district scholarship in 2003.
4. Secured Middle School Scholarship by Maharashtra State Examination Board.
5. Pune District Mathematics Association-Secured Merit Scholarship
6. Inter-School Science Exhibition-Won Consolation 2 in senior group category
7. Quest-"Milestones in Science" project by Indian Express-Won Judges Special Consolation Prize.

_____

Certificates of Merit:
1. Secured 1st Grade-Qualifying Examination in Mathematics at Maharashtra Dnyanpeeth in the year 1998.
2. Secured 1st Grade-Qualifying Examination in Mathematics at Maharashtra Dnyanpeeth in the year 2000.
3. Secured 1st Grade-Qualifying Examination in Mathematics at Tilak Maharashtra Vidyapeeth in the year 1998.
4. Secured 1st Grade-Qualifying Examination in Mathematics at Tilak Maharashtra Vidyapeeth in the year 2000.
5. Mathematics Scholarship Examination by Institute for Promotion of Mathematics in the years 1998, 1999, 2001, 2002.
6. Inter-School Essay Competition at Symbiosis Centre for Health Care.