



Hansitha Keerthiratne

Mechatronics Engineer

Phone-

+94 762715660

Address-

No.38, Uplands, Kandy, Sri Lanka, 20000

Email-

rhkeerthiratne00@gmail.com

LinkedIn-

www.linkedin.com/in/hansitha-keerthiratne

Objective

With a passion for innovation and problem-solving, I am eager to leverage my skills and expertise to drive technological advancements and make positive impacts in the field of mechatronics engineering.

Profile

Highly skilled and innovative Mechatronics Engineer with a passion for integrating mechanical, electrical, and control systems to develop cutting-edge solutions. Adept at combining theoretical knowledge with hands-on expertise to design, model, build, and optimize complex mechatronic systems. I possess a strong understanding of robotics and automation and am committed to delivering an efficient and reliable engineering solution when faced with a problem.

Key Skills

- Mechatronics System Design
- Robotics and Automation
- CAD/CAM and Solid Modeling
- Engineering drawing
- Project Management and Team Leadership
- Problem solving and analytical thinking
- Mission Directed and Impact Focused
- Effective communication skills

Academic and Research Projects

- **IoT-based, dual-axis solar tracking system with data management and predictive analytics (2023)**
 - A dual-axis solar tracking device with the use of only one motor and a newly designed gear mechanism was designed and implemented in order to reduce costs and increase profits of solar energy harvesting systems present today. The benchwork along with the software developments are completed while the project thesis preparation is in progress.
- **Design and simulation of a 3D-printed hexapod spider robot (2022)**
- **Design and development of a Pick-and-place robotic arm using actuators (2019)**
- **Development of a ticket-generating software for public transportation using the C++ software development language (2019)**

Education

- **BSc. Honors in Mechatronics Engineering (2019-2023)**
 - SLTC Research University
- **GCE (Advanced Level) - Physical Science - (2018)**
 - Trinity College Kandy
- **GCE (Ordinary Level) - (2015)**
 - Trinity College Kandy

Work experience and Volunteer work

- **Junior Executive - Design and Development**
 - Royal Ceramics Lanka PLC (Nov 2023 - Present)
- **Mechatronics Engineering Intern**
 - Royal Ceramics Lanka PLC (Feb 2023 - Nov 2023)
- **Volunteer English teaching**
 - SaranaSevana Orphanage, Kandy (2022 - Present)
- **Spoken English teacher / assistant**
 - Myfe English Institute Kandy. (2016-2018)

Professional qualifications and certifications

- TPM Practitioner Certification Program (July 2023)
- Successfully completed the following certificate level courses on Coursera.
 - Modern robotics course 1- Foundations of Robot Motion (April 2022)
 - Modern robotics course 2- Robot Kinematics (April 2022)
 - Neural Networks and Deep learning (October 2022)
- Research methodology workshop (2021)
- Winning edge undergraduate skills development program (2019 – 2020)
 - SLTC Research University

Professional affiliations

- Member of the IEEE student society of SLTC (2019 – Present)
- Founding member of the Rotaract club of SLTC
- Director of club services of the Rotaract club of SLTC (2022)
- Director of Membership development of the Rotaract club of SLTC (2021)
- Member of the Science club at Trinity College Kandy (2012 – 2018)

Extra-curricular activities

- Project chairperson of “Tharka Sangrama 2022”, an Inter-university debating competition which was organized by the Rotaract club of SLTC.
- Executive committee member of “Andante”, an inter-university music competition which was held at the Royal College main hall. (2019)
- Member of the School Prefect’s Guild of Trinity College Kandy (2017-2018)
- Executive committee member of “Thrithva Ranga 2018”, which was held at Trinity College Kandy. (2018)
- Held the position of House games captain - Senior year (2017)
- Held the position of House games captain - Junior year (2013)

- **Gymnastics Career**

- Vice-captain of the college gymnastics team (2017-2018)
- Awarded district colors for the years 2015 and 2016
- Placed third in the National schools’ gymnastics tournament (2015)
- Awarded the Kandy district gymnastics champion for the year 2015
- Represented the central province gymnastics team in the national sports festival from the year 2011 to 2014

- **Athletics career**

- Placed 3rd in the 4x100m relay at the national schools’ athletics meet (2016)
- Placed 3rd in the 4*100m relay at the all-island relay carnival. (2016)
- Recipient of district colors in the year of 2016
- Placed 1st in the district athletics meet of 2016 (Event-Long jump)
- Placed 3rd in the provincial athletics meet of 2016 (Event-Long jump)

References

Mr. Amila Shasith Jayasinghe.
Engineering Manager,
Rocell Bathware Limited,
01, Templeburg Industrial Zone,
Panagoda, Homagama, Sri Lanka.
Email- amilaj@rcl.lk
Mobile- +94743666291

Mr. Sampath Deegalla.
Senior Lecturer,
Department of Computer
Engineering,
Faculty of Engineering,
University of Peradeniya,
Peradeniya, Srilanka.
Email - sampath@eng.pdn.ac.lk
Mobile - +94777625054