



SARTHAK S KUMAR



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PERSONAL DETAILS

FATHER'S NAME: SUNIL KUMAR

MOTHER'S NAME: PREETHI KARKERA

DOB: 11 JULY 2003

BLOOD GROUP: O NEGATIVE

PLACE: KODIALBAIL, MANGALORE

CASTE: BILLAVA/BIRUVA (2A)

EDUCATION

2012	BEARYS PUBLIC SCHOOL
CLASS 3	• Hathill, Ladyhill, Mangalore - 575006
2015	MANIPAL SCHOOL
CLASS 6	• Attavar, Mangalore - 575001
2019	SHARADA VIDYANIKETHANA PUBLIC SCHOOL
CLASS 10	• Devinagar, Talapady, Mangalore - 575023
2021	EXPERT PRE-UNIVERSITY COLLEGE
CLASS 12	• Kodialbail, Mangalore - 575003

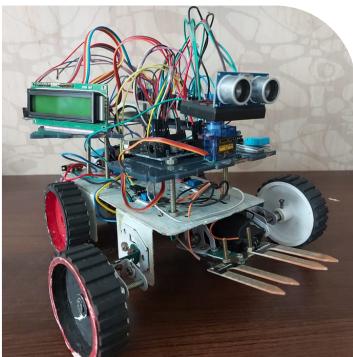
ACADEMICS

2019	CBSE CLASS 10 EXAMINATIONS
	• Scored 95.40%
2020	CLASS 11 BOARD EXAMINATIONS
	• Scored 92.67%
2021	CLASS 12 BOARD EXAMINATIONS
	• Secured 98.83%

AREAS OF INTEREST & CONCERN

ROBOTICS	ENTREPRENEURSHIP	AGRICULTURE
ALGORITHMS	INNOVATION	TEACHING
CAD	RESEARCH	PROJECTS
3D MODELLING	PROGRAMMING	PUBLIC SPEAKING
AI	ETHICAL HACKING	COMPUTERS AND TECH

NOTABLE PROJECTS



2019

AGRIBOT PROTOTYPE 1

- Smart locomotive which collects Soil moisture, Temperature and Humidity readings from different areas of the field and provides suitable information to a farmer regarding crop choice and growth steps. This project was recognized by the Honorable Prime Minister of India in Mann ki Baat Radio Programme, and the Agricultural Ministry of India.
- [Click here for more!](#)

2019

I-CITY MANGALURU APP

- Our Idea is in the form of an app based on the theme "SMART CITY". This app basically includes components required for a smooth functioning of an ideal city.
- [Click here for more!](#)

2018

PROTOTYPICAL AGRICULTURE SYSTEM

- We have Visualized 'SMART Kissan', A system with Sensor Modules, Smart Surveillance Camera's, Receivers and Transmitters, and an Interface that would collect information from these Nodes implanted in an agricultural field, process it and give out results. Results here means, that the interface would give out suggestions and methods to an agriculturist regarding Cropping, Maintenance, Security, Harvesting, and Marketing.
- [Click here for more!](#)

2017

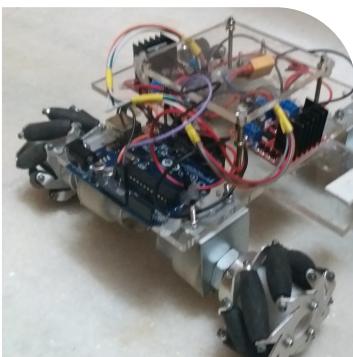
SWACHH PROTOTYPE 1

- A dustbin that could be kept in a car. The specialty of the bin is that it can compress waste added to it so that it can make more space for the rest of the waste to be added within a small space and would also make it easy to dispose of later.
- [Click here for more!](#)

2017

MECANIUM

- Mecanium is a four wheeled RC car, which uses Mecanum wheels. Controlled by Bluetooth, this ride can virtually move in any direction. The Mecanum wheel is based on a tireless wheel, with a series of rubberized external rollers obliquely attached to the whole circumference of its rim. These rollers typically each have an axis of rotation at 45° to the wheel plane and at 45° to the axle line.
- [Click here for more!](#)



PROJECTS

2016



IDEAL HOME SECURITY

- In the present time, home and office security has become very important. In our absence, these places are not secure. To make these places secure people prefer to keep guards or think of electronic systems. At present, many types of security systems are available but are available separately and are relatively costly. I have come up with an all-in-one home security system with phone control and live streaming agility. I have tried this system in a model home, made using foam sheets to display how it works.
- [Click here for more!](#)

SKILLS

EMBEDDED C & C

C++

JAVA

PYTHON

HTML

CSS

JAVASCRIPT

CIRCUIT AND PCB DESIGNING

COMPUTER TWEAKS AND REPAIR

ROBOTICS

VIDEO EDITING



fritzing



CERTIFICATIONS



Python And Flask Framework Complete Course

Udemy

Issued Sep 2021 · No Expiration Date

Credential ID UC-6aa5698f-948b-4cc9-bac3-8d5039320dae

[See credential](#)



Complete Modern JavaScript Firebase BootCamp

Udemy

Issued Jul 2020 · No Expiration Date

Credential ID UC-f1fab0f8-072b-48ed-b8bb-03bef882eeb3

[See credential](#)



Java Complete Course, Spoken Tutorial Project on SWAYAM

Indian Institute of Technology, Bombay

Issued Jun 2020 · No Expiration Date



CSS & JavaScript

Udemy Academy

Issued May 2019 · No Expiration Date

Credential ID UC-27736b18-4587-4193-a0d4-f706d8e16870

[See credential](#)



Written Expressions

Pearson

Issued May 2014 · No Expiration Date

EXPERIENCE



Boffin Builder

Blix Robotics · Freelance

Jun 2021 – Present · 4 mos

Freelancing Boffin Builder for the Boffin Kit prototypes by Blix Robotics. Creating the toy of the future which will help young minds explore their potential, develop their skills and innovate for good.

COMPETITION & EVENTS

- 2013** • 2nd Place in 100m Race held at **Annual Sports Meet**, Manipal School
- 2014** • 2nd Place in 100m Race held at **Annual Sports Meet**, Manipal School
• 2nd Place in Science Model Making (Group) Competition held at Manipal School, Attavar, Mangalore.
- 2015** • Secured **1st place** in **IT model making** competition held at **Sharada Vidyanikethana Public School**.
- 2016** • **1st Place in District Level Jnana Vidyana Mela** Innovative Model Making Event, held at Sharada Vidyalaya and qualified for **State Level**.
• Won **1st place** in **IT Model Making** Competition held in Sharada Vidyanikethana Public School.
• Secured **1st place** in **Science Model Making** Competition held in Sharada Vidyanikethana Public School.
- 2017** • Won **1st place** in **Quiz competition** organized by Bharat Gas Petroleum, Panchami Gas Agency, Thokkottu, Mangalore.
• **2nd Runners up in 90 Seconds to Fame** competition organized by **Association of ICSE and CBSE Schools**, in Mount Carmel Central School, Mangalore.
- 2018** • **National Finalist in Innoventure-2017, India's 1st Ideation and Entrepreneurship Challenge** held at Pune, Maharashtra, India.
• Secured **1st place** in **Science Model Making** Competition held in Sharada Vidyanikethana Public School, Devinagar, Talapady, Mangalore.
• Won **2nd place in Inteligensia-2018, Inter District Science Model Making** Competition held at Sharada Vidyalaya, Kodialbail, Mangalore
• Secured **1st place in Circuit Making Competition** organized in Carmel Ingenium, an **Inter-School Fest** held in Mount Carmel Central School, Mangalore.
- 2019** • Awarded with **Merit Certificate** by CBSE Board for Scoring **100 in Science** in Class 10 Board Exams 2019.
• Secured **2nd Place in Dreamathon-2019, a 24-hour hackathon** conducted in Sahyadri College of Engineering and Management, Adyar, Mangalore.
• Won **2nd Place in Engiconnect-2019, an Innovation Competition** held at **NITK Surathkal**.
- 2020** • Won **1st Place in Interactive Chemistry** event held as a part of ChemConnect-Igniting Young Minds, organized by Dept. Of Chemistry, St. Aloysius College, Mangalore.
- 2021** • **2nd Runners up in ROTOQUIZ 2021, Worlds Longest Running Quiz** Event organised by **Rotary International**.

PARTICIPATIONS

- Participated in Various Hobbyist Competitions held in School, Inter-School, District Levels and won several prizes.
- Participated in **Book Reading Campaign** in **Manipal School, Attavar, Mangalore** in the year 2013.
- Participated in **Gyan Labs Workshop** Conducted in **Manipal School, Attavar** in the year 2014.
- Participated in **Quiz Champs-2016**, Organized by **Manipal School, Attavar** in the year 2016.
- Participated in **Rangoli Making Competition**, Organized by **Association of ICSE and CBSE Schools at Prestige International School** in the year 2016.
- Participated in **IT Quest 2017**, an **AICS** organized Competition held in **Little Rock Indian School, Brahmavar** in the year 2017.
- Participated in **Fun-cyclopedia** Knowledge Workshop organized by **Birmingham Small Arms Company Limited**, in the year 2017.
- Attended **Monsoon Camp** Held by **DTlabz** at **Sahyadri College of Engineering and Management** in the year 2017.
- Attended **Mahabharata** Exam by **Bharata Samskruthi Pratishtana** in the year 2017.
- Submitted a Synopsis on **Smart Farming** to **IRIS National Fair, an All-India Innovation Competition** in the year 2018.
- Participated in **Pick and Speak** Competition Held by **Department of Posts**, Mangalore Division, Mangalore on the topic of **Eradication of Corruption**, in the year 2018.
- Participated in **Sahyadri Science Talent Hunt (SSTH)-2018, Project/Model Making** Competition held at **Sahyadri College of Engineering and Management** in the year 2018.
- Participated in **Hot-Seat**, organized by **AICS** at **Canara CBSE High School** in the year 2018.
- Attended **Summer Camp** Held by **DTlabz** at **Sahyadri College of Engineering and Management** in the year 2019.
- Participated in two events held at **Pre-Unique 2019 (Dev C++ Programming & Science Model Making Competition)**, **St. Aloysius College**, Mangalore in the year 2019.
- Participated in **Rocket Science Quiz** organized by **Astronomy Club India** in the year 2020.

RECOGNITIONS

- Recognized as **Robo-Champ 2017**, By **Sahyadri Edu Dreamers R&D Pvt. Ltd** on 11th March 2017.
- Recognized by **Dreamers, Sahyadri College of Engineering and Management** for Representing in various Competitions on 21st February 2018.
- Awarded "**Amateur Scientist**" Title in Innoventure Contest held in Pune, Maharashtra, India on 27th January 2018.
- Recognized by **Google** as one of the **Best Learners of 2017** for learning in the Edurev Learning app.
- Recognized as **Young Scientist of Mangalore** at the Independence Day Celebration organized by **Rashtriya Chraistara Vedike, Mangalore** on 18th September 2020.
- Recognized as **Mangalore's Young Scientist** by the members of the **KPCC Committee**.
- Was mentioned in **Mann Ki Baat** Radio Programme hosted by the **Honorable Prime Minister of India**, for my recent project, **AgriBot** in October 2020.
- Felicitated by **Ln. Vijay Vishnu Mayya, President of All India Civil Engineers Association** on the occasion of Engineers Day organized by **Lions Club of Triveni, Bendorwell, Bejai, and Midtown** on 15th September 2021.
- Recognized as **Young Scientist of Mangalore** by **Friends Ballalbagh Biruver Kudla (R)** and **Namma TV**, on 13th October 2021.
- Felicitated by the revered trustees of **Shri Gokarnanatha Kshetra, Kudroli, Mangalore** on the occasion of **Mangalore Dasara 2021** on 14th October 2021 and recognized as **Amateur Scientist**.
- Felicitated by trustees and management of **Shri. Mookambika Temple, Kollur** on the occasion of Navaratri, on 11th October 2021.
- Felicitated by **Rashtriya Billava Mahamandala (R) Mulki, D.K committee** for achievements in the field of Computers and Agriculture, on 17th October 2021.
- Honored with the **Young Scientist Award** by the revered trustees of **Shri Kshethra Gejjegiri Nandana Bithil, Puttur, Karnataka**

WORKSHOPS CONDUCTED



MAY 2021

LEARN C++ ONLINE WORKSHOP

- learn C++ Workshop was conducted for students belonging to the age group of 13 to 18 years for 5 Days. Complete exposure to C++ Programming was given along with hands-on experience with projects and assignments

MAY 2021

CODEQUIZ 2021

- CODEQUIZ 2021 was collaboratively organised to put coding skills and aptitude to test. This quiz covered C, C++, Java, JavaScript, Python, HTML, CSS etc. We had received 150+ registrations for this event, and the winners of this event were awarded with attractive prizes

MAY 2021

HANDS ON PCB, PCB DESIGNING WORKSHOP

- Students were taught about PCB Designing, Use of PCB's in the modern world, Packages and components, and hands-on experience with PCB Designing. they were taught to design an Arduino clone PCB using Autodesk Eagle Software.

JUNE 2021

PYCHAMP 2021, ONLINE PYTHON WORKSHOP

- 4 Day Online Python workshop was conducted for young coding enthusiasts to get started with python and kickstart their ideas. This workshop provided a solid and deep foundation in python and covered more topics than most of the other training programs. Certification was given to participants on successful completion of the projects and the assignments

SEPTEMBER
2021

BEGIN WITH C, C PROGRAMMING WORKSHOP

- This workshop targeted students who chose engineering as their field of study and were looking for help in terms of programming concepts. Right exposure to programming was given to the participants, and the materials in this workshop were the right mix of theory as well as practical concepts. Participants were given certificates on the completion of the workshop