Wadhudh Kavi

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Highly motivated ECE undergraduate with a passion for spacecraft development, achieving a **State Rank-17 in the National Science Indian Talent Exam (2018-2019)**. My experience includes:

- **Building hardware projects:** Designed and implemented an Arduino-based mobile phone using GSM multiplexing, showcasing strong electronics and communication skills. Also, designed and implemented an obstacle detection system using Arduino.
- **IoT development:** Created an IoT-based gas leakage detection system, demonstrating an understanding of sensor integration and data acquisition.
- **Project management:** Led the development of a digital library application, highlighting my ability to organize information and manage projects.
- Possess strong coding skills in C++ and Java, honed through coursework and personal projects. Additionally, bring 3+ years of experience administering, filming, and editing for an educational YouTube channel, growing viewership to **36,000+** subscribers. Eager to learn from URSC's renowned engineers and contribute to the success of their upcoming satellite endeavors.

WORK EXPERIENCE

ISRO - Indian Space Research Organization: U R Rao Satellite Centre • Bangalore • July 2024 - Present

Works at the Systems Integrations Group at the U R Rao Satellite Centre unit of ISRO, Bangalore. Hands-on experience in the Harness Development System used to design the layout for harnesses for spacecraft.

Intern • Internship

Neural Inverse • March 2024 - Present

Neural Inverse is an AI-based student startup that aims to liberate developers from time-consuming tasks, offering seamless creation, testing, deployment, maintenance, and upgrades, allowing software developers to focus on the more creative aspects.

Technical Interns Manager & CFO-associate

YouTube • Coimbatore, Tamil Nadu, India • June 2020 - Present
Amuthan's Classroom - Channel Admin

- Administration, Camera and Video editing for "Amuthan's Classroom" - An Educational YouTube Channel with currently over 36,000+ subscribers.
- https://youtube.com/@amuthansclassroom9663

BITS-Pilani(Goa Campus)
Quark'24 Campus Ambassador

EDUCATION

Bachelor of Engineering - B.E. in Electronics and Communications Engineering
Sri Krishna College of Technology (2022-2026)

+2 CBSE Examinations in Physics | Chemistry | Maths | Biology
Sri Chaitanya Techno School • April 2021 - May 2022

Secured 91.6% marks in the written examinations.

Class 10 CBSE Examinations
Avatar Public School • April 2019 - March 2020

Secured 94.2% marks in the written examinations.

CERTIFICATIONS

Artificial Intelligence Foundations: Machine Learning • December 2022
LinkedIn

MATLAB Onramp • December 2023 - Present
MathWorks

Introduction to the Internet of Things and Embedded Systems • May 2023
University of California, Irvine

Interfacing with the Arduino • May 2023
University of Washington

Moral Thinking: an Introduction to Values and Ethics - ELITE CERTIFIED •
August 2023 - September 2023
NPTEL (IIT KANPUR)

Write Professional Emails in English • September 2023
Georgia Institute of Technology

Business English Making Presentations • September 2023
University of Washington

AWARDS & SCHOLARSHIPS

Excellence Medal Award: Secured State Rank - 17 in the NATIONAL SCIENCE INDIAN TALENT(NSIT) examination. •
August 2019
INDIAN TALENT OLYMPIAD

PROJECTS

Arduino based Mobile Phone
- Developed an Arduino-based mobile phone and succesfully showcased Full duplex communication to and from a distant party.
- Used GSM multiplexing to transmit voice information.
- Used TFT touch display to make an intuitive interface for the system.

IoT-based Gas Leakage Detection System using ESP8266
- Developed a gas leakage detection system that can detect, notify the user through an app and set off an alarm in case of a scenario of a flammable gas leakage.
- The project utilized an ESP8266(NodeMCU) and an MQ-5 gas sensor.

Obstacle Detection System using Arduino UNO
- Developed an obstacle detection rover system that utilizes an ultrasonic sensor and an Arduino UNO envisioning uses like Collision avoidance for unmanned explorer vehicles and automobile-collision-

alert system.

Musical Rhythm Light

- Created a project that transforms the beats of musical tunes into a dance of light. The higher the beat, the more intense and dazzling the display of the lights.
- When music stimulates the microphone attached to the circuit, the LED lights on the breadboard go on and off in perfect sync with the rhythm.
- Watch the project's video here on LinkedIn: https://bit.ly/wadhudh

Digital Library

- Developed a Digital Library where study materials are organized for students in such a way as to reduce labour of students for navigating towards better resources.

VOLUNTEERING & LEADERSHIP

Avatar Public School

Organized and coordinated morning student assemblies.

SKILLS

SOFT SKILLS: Possessing a strong command of English communication skills.

PROGRAMMING: C++, Java, Data Structures and Algorithms, Design and Analysis of Algorithms

FRONT-END WEB DEVELOPMENT: HTML, CSS

TECHNICAL SKILLS: Analog Communication, Internet of Things, Circuit Analysis