

# NIDHIN S NAUSHAD

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## SUMMARY

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Aspiring, diligent and fast learner inclined towards electronics and computer engineering, who loves to solve real-world problems, meet new people, and learn new things. Actively searching for opportunities in the domain of Embedded Systems & Cyber Security.

## EDUCATION

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<b>Amrita School of Engineering, Amritapuri</b> B.Tech in Electronics and Computer Engineering Current CGPA: 8.41/10	<i>2019-Present</i>
<b>Kuriakose Elias English Medium School, Kottayam</b> Senior Secondary Schooling, ISC CGPA: 8.1/10	<i>2017-2019</i>
<b>L'ecole Chempaka, Thiruvananthapuram</b> Secondary Schooling, ICSE CGPA: 8.9/10	<i>2016-2017</i>

## EXPERIENCE

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<b>bi0s Hardware</b> <i>Member and Student Mentor</i>	<i>December 2020 - Present</i>
<b>bi0s</b> is India's No.1 CTF (Capture the Flag) team. Responsibilities as part of the team includes:	
<ul style="list-style-type: none"><li>• <b>Hardware CTF Player:</b> Learn about different techniques, tools, languages to help the team solve hardware challenges in CTFs.</li><li>• <b>Designing:</b> Making 3D models and circuit designs for team projects.</li><li>• <b>Mentoring:</b> Train newcomers to the team by taking sessions for them on different technical topics related to Internet of Things.</li><li>• <b>Event Management:</b> Work along with the team in organizing the <a href="#">InCTF series</a> annually.</li></ul>	

## ACHIEVEMENTS

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<b>Black Hat USA Student Scholarship</b> Awarded fully funded student scholarship to attend Black Hat USA 2021 Security Conference.	<i>July 2021</i>
<b>IEEE National RFID Challenge Winner</b> Secured first runner up position in the RFID National Challenge for my prototype of security access using RFID system and presented my work at the 11th International Conference on RFID Technology and Applications 2021. <a href="#">Certificate</a> .	<i>October 2021</i>
<b>Nullcon Hardware CTF Runner up</b> Won second position at Hardware CTF held at Nullcon Security Conference and Training, Goa. Solved challenges based on PCB reversing and 3D modelling.	<i>September 2022</i>

## PUBLICATIONS

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**Prediction of Water Quality Parameters Using Regression Models** *February 2022 - April 2022*  
Developed an IoT prototype to measure real time value of water quality parameters for better model accuracy and presented this paper at the 2nd International Conference on Advance Computing and Innovative Technologies in Engineering.

## PROJECTS

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**Bluetooth Controlled Robotic Car** *October 2019 - November 2019*  
Created a bluetooth controlled obstacle and light detecting robotic car using Arduino IDE. We had designed the body using Auto CAD and 3D printed it, after soldering and connecting all the sensors we made a simple mobile application to control the robot. [Github](#)

**Security Access System** *June 2021 - July 2021*  
Set up a RFID based login into windows authentication screen, by writing the original password into a RFID tag and using that as the key to a RC 522 sensor as an added security feature. [Github](#)

**Finding Security Flaws in Hardware Network Protocols** *March 2022 - Ongoing*  
Dripfuzz aims to find security flaws in the hardware network protocols like MODBUS, DNP3 etc. Fuzzer supports three types of fuzzing: brute force, mutative, and generative. [Github](#)

## COURSES

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**Marketing in a Digital World** *June 2021 - July 2021*  
Completed the course with honours from University of Illinois. [Certificate.](#)

**Cybersecurity and the Internet of Things** *June 2021 - July 2021*  
Completed the course authorized by University System of Georgia. [Certificate.](#)

## COMMUNITY OUTREACH PROGRAMS

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**Student Social Responsibility Project** *February 2022 - March 2022*  
Conducted sessions on Cyber Crime awareness and gave Technical Training which included basic python programming and simple hands on arduino based projects to the students of Government Higher Secondary School, Attingal, Trivandrum.

## TECHNICAL SKILLS

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<b>Languages</b>	Python, C/C++ , Java, SQL, R, Verilog, HTML, Java script and CSS
<b>Tools/IDE</b>	Arduino IDE, GNU Sim & Octave, Cisco Packer Tracer, and Wireshark
<b>Design Softwares</b>	Auto CAD, Fusion 360, Eagle CAD, and KiCAD.

## ACTIVITIES

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**Vidyut National Level Multifest** *January 2020 - February 2020*  
Actively worked as a coordinator for Vidyut as the team lead and co host of the promotion programs.

## HOBBIES

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Dance, Music, Travel, Reading, Basketball, Billiards, Driving and Swimming.