

Sujit Kumar Sahu

Information



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SUMMARY

A versatile, qualified, and proficient engineer, looking forward to use and further upgrade expertise in a dedicated organization while adding more feathers to the crown of the organization with hard toil.

EXPERIENCE

09/2021 - Present

Strasbourg

ICube, UNISTRA, France

Early Stage Researcher

- Designing and conducting tests to validate sensor fusion performance in soft and flexible robots used for Minimally Invasive Surgery
- Experience on the use of electronic simulation software such as LTspice and PSpice
- Collaboration with researchers to integrate the sensing technology with their systems
- Prepare invention disclosures in terms of articles and international conferences
- Provide direction and assistance to workgroup in order to meet assigned objectives

06/2019 – 09/2021

Pisa

The BioRobotics Institute, SSSA, Italy

Early Stage Researcher

- Experience on the development of novel stretchable sensors using electrical resistive and inductive principle
- Sensor modelling and hypothesis testing
- Sensor data analysis to evaluate performance
- Designing soft and flexible actuators with SOLIDWORKS
- Scripting experience with LabVIEW, MATLAB, and Python
- Coordinates with suppliers to select and purchase various sensors and related products
- Experience on handling various electronics, electrical, mechanical, and materials components

08/2017 – 05/2019

Patna

Incubation Centre, IIT Patna, India

Researcher

- Experience on dielectric elastomer materials that work on the principle of variable capacitance
- Design experience with SOLIDWORKS, Pro-E, and AutoCAD
- Experience on the development of various mechatronics systems including automatic tensile testing device and knee energy harvester for dielectric materials
- Experience on the development of electronic circuits for energy harvesting process

EDUCATION

2019 – 2022

**Scuola Superiore Sant'Anna Italy and
University of Strasbourg France**
Ph.D. in Biorobotics (Ongoing)

Curriculum: Surgical Robotics

Project: Intraluminal Sensing for Autonomous Navigation in Remote District

Scholarship: Marie Curie Fellowship

2019 – 2022

Indian Institute of Technology Patna
Master's Degree in Mechatronics

Relevant Coursework: Fundamentals of Mechatronics, Sensors and Actuators, Advanced Robotics, Control System, and Modelling and Simulation

Project: Energy Harvesting from Dielectric Electroactive Polymer

CPI: 9.21/10

Scholarship: MHRD Fellowship

2019 – 2022

BPUT ODISHA
Bachelor's Degree in Mechanical Engineering

Relevant Coursework: Engineering Mathematics, Thermal Engineering, Theory of Machines, Design of Machine Elements, Strength of Materials, Manufacturing Science, and Industrial Engineering

CPI: 8.16/10

Scholarship: CAFAS

SKILLS

- Strong knowledge of engineering fundamentals
- Experience on the characterisation of dielectric elastomers based on acrylic and silicone materials
- Hands on experience on electromagnetic trackers, capacitive, inductive, resistive, ultrasonic, and infrared sensors
- Experience on using hardware lab equipment such as oscilloscope, function generator, data acquisition devices, microcontrollers, CNC machines, and hydraulic and pneumatic setup
- Excellent presentation and communication skills: ability to present research data in front of technical professional and lay person
- Data analysis experience in MATLAB and Microsoft Excels
- Experience on designing and prototyping of different mechatronics systems

Research Output ([Link](#))

- Number of patents: 3
- Number of journals: 3 Published and 2 ongoing
- Number of international conferences: 3 published and 2 accepted
- Number of book chapter: 1

Achievements

- The master project “Knee Energy Harvester” was selected for the spin off in the incubation centre of IIT Patna
- The project “Automated Tensile Testing Device” invented during master’s degree was selected with in 6 best business ideas by Bihar Industry Association and Venturepark
- Received Marie Skłodowska-Curie fellowship from the European Union to carry out innovative research
- Qualified GATE a highly competitive exam in India with 97 percentiles

Extra-Curricular Activity

- Two-time winner of intra college chess tournament
- Captain of college cricket team
- Coordinator of college techno festival and robotics club

Declaration

I hereby declare that the above-mentioned information is correct to the best of my knowledge, and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Strasbourg, France

Date: 13.02.2022

Name: Sujit Kumar Sahu