

Dr. Dipankar Bhattacharya



Robotics & Control Systems Expert



Marie Skłodowska-Curie Fellow



Imperial College London |  Dyson School of Engineering



Cable-driven Soft Exoskeletons for Rehabilitation

15+

Publications

5+

Countries

10+

Projects

Research Domains



Medical Robotics

Soft esophagus modeling, Stent testing, Rehabilitation robotics, Exoskeletons



Cable-Driven Robotics

Parallel robots, Cable wrapping, Growing vine robots, Soft mechanisms



Industrial Automation

Fabric manipulation, Garment production, Physics-based control



AI & Learning

Imitation learning, Iterative control, Predictive models, Deep learning

Technical Expertise



Robotics

Cable-driven robots • Soft robotics • Mechatronics • Control systems • Manipulation



Programming

PyTorch • Python • MATLAB • ROS • LabVIEW • Gym • Assembly • C



Design

Blender • SOLIDWORKS • Inventor • Inkscape • 3D modeling • CAD



Hardware

Raspberry Pi • Arduino • myRIO • Microprocessors • Embedded systems



Machine Learning

Deep learning • Imitation learning • Physics-based modeling • Neural networks



Research

Scientific writing • LaTeX • Grant proposals • Mentorship • Teaching

Career Milestones

Nov 2025 - Present

Marie Skłodowska-Curie Fellow

Imperial College London, UK

May 2025 - Oct 2025

Senior Research Engineer - Control Systems

Center for Transformative Garment Production

Jul 2024 - Oct 2025

Visiting Research Associate

Hong Kong University

Mar 2021 - Jun 2024

Postdoctoral Fellow

Chinese University of Hong Kong

Oct 2021 - Jan 2022

Visiting Postdoctoral Fellow

École Centrale de Nantes, France

Aug 2016 - Apr 2021

Ph.D. in Mechatronics Engineering

University of Auckland, New Zealand

2017 - 2020

Graduate Teaching Assistant

University of Auckland

Jul 2013 - Jun 2016

Lecturer (Assistant Professor)

Galgotia's University, India

Academic Qualifications

Ph.D. in Mechatronics Engineering

The University of Auckland, New Zealand
2016 - 2021

M.Tech in Systems and Control

Indian Institute of Technology (IIT)
2011 - 2013

GPA: 8.4/10.0

B.Tech in Electronics and Communication

NERIST
2004 - 2010
GPA: 9.1/10.0

Research Focus: Advancing robotics for healthcare and industry through innovative control systems and AI

Current Project: CASREx - Cable-driven Soft Exoskeletons for Rehabilitation