

# Udipt Das Sharma

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## PERSONAL PROFILE

Recent MEng Engineering graduate with strong academic background and wide range of technical and interpersonal skills. Proficient in engineering design principles and critical problem solving through industrial placement. Effective communication and teamwork skills developed through positions of leadership in university and industry.

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## EDUCATION

MEng Medical Engineering, Cardiff University SEP, 2016 – JUN, 2021

Academic Average- 2:1. **Relevant Modules:** Computing (C++ and Python), Engineering Design (CAD - Solidworks, FEA - Ansys), Solid and Fluid Mechanics, Mechatronics, Manufacturing Systems Design

Awarded Best Mechatronics Project of the Year for fourth year module, through development of electro-mechanical devices for diagnosis of Asthma.

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## WORK EXPERIENCE

Business Growth Summer Intern, Journify.co JUL, 2020 – SEP, 2020  
Cardiff (Remote)

- Organised partnership opportunities with health technology start-ups.
- Brainstormed and implemented creative growth models improving the app visibility and outreach.

Mechanical Engineering Intern, Dow JUL, 2018 – JUL, 2019  
Barry, Wales

- Created detailed databases for rotating equipment in the largest silicone manufacturing plant in Europe, improving repair efficiency by eliminating historical inaccuracies and inconsistencies.
  - Built custom calculators for gasket and flange dimensions of large pressure vessels used in silicone manufacturing, using ASME/DIN codes and FEA software.
  - Coordinated the service of critical plant equipment under strict time and budget constraints during the biyearly plant maintenance shutdown. Also served as first point of contact between the external valve service contractors and Dow engineers.
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## POSITIONS OF LEADERSHIP

President, Engineers Without Borders Cardiff SEP, 2019 – AUG, 2020

- Worked with university faculty and external organisations to initiate and acquire funding for a new community project, building green walls at Cathays Railway Station.
- Reached out to regional universities for collaborations, leading to Cardiff University participating in a 'Designathon' design competition attended by 5 institutes.
- Increased member turnout and engagement within the society by working with the committee to host interesting DIY as well as social or fundraising events every week.

OGV Team Leader, AIESEC Cardiff JAN, 2018 – MAY, 2018

- Recruited students for international volunteering opportunities under the Outgoing Global Volunteers (OGV) programme, by creative marketing at 3 universities in Cardiff.
  - Acted as first point of contact in the UK for participating students during their trip abroad.
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## SKILLS

• PROGRAMMING (PYTHON, C++ AND MATLAB) • ENGINEERING DESIGN • MS-OFFICE • CAD (SOLIDWORKS) • FEA (ANSYS AND ABAQUS) • COMMUNICATION • LEADERSHIP • TEAMWORK