# ASHISH MOHAPATRA

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## OBJECTIVE

I am passionate about robotics, web dev and Web3. I love to learn, explore, and implement new things. I like contributing to open-source projects on Github and helping the Web3 community.

## EDUCATION

**Bachelor of Engineering**, Odisha University of Technology and Research      2017 - 2021
CGPA 3.23/4 (80.08%) Member of Zairza - RoboSof Society

## EXPERIENCE

**Software Development Engineer**, Aarna Protocol, Delaware, US      May 2021 - Present

- Delivered responsive, cross-browser Decentralised websites, achieving 40% faster load time than industry average
- Responsible for Web3 Protocol transactions with smart contracts using ethers.js
- Integrated backend services with smart contracts developed by the protocol team.

**Mobile App Developer**, Milk Mantra, Bhubaneswar, India      Sep 2020 - Apr 2021

- Achieved 60% growth with the improvised DailyMoo mobile app and led the Flutter mobile development.
- Designed and built consumer android and iOS apps and rider app that consumes GraphQL and REST APIs.
- Ensured the performance, quality, and responsiveness with clean Architecture and Agile developments.

**Automation Intern**, Siemens, Mumbai, India      May 2019 - July 2019

- Collaborated with retrofitting team for CNC(Siemens 828D and 840D) commissioning projects at PARI Robotics.
- Installed and debugged PLC system logic for Vertical and Horizontal Milling Centers and conveyor belts.
- Performed connection diagnostics and configuration for S7 stations for communication through TIA portal.

## PROJECTS

**Hand Gesture Recognition in Real Time for Automotive Interfaces** Developed a gesture recognition system using Picozense TOF camera. Allowing drivers to use simple hand gestures to perform various actions in the vehicle with 3D OpenCV libraries and Pyautogui - turn the volume up or down, or select navigation. (Detailed Report)

**Detection of Stress with real-time Heart Rate, Tone Analyzing and Hand-over Face Gesture Recognition in Workplace.** Determined a stress score from 3 factors: 1.PPG sensor for heart rate montoring 2.time-domain HRV features and hand-over-face gestures 3.Tone analysis with IBM Watson. (Detailed Report)

**Fruit Freshness determination using NIR spectroscopy** Developed a sensor with Spectroscopy called Near Infrared Spectroscopy(NIRS) to determine the freshness and eatability of the fruits and vegetables can be predicted by PLS algorithm analysing the amount of structural decay. (Detailed Report)

## AWARDS

- Anveshan Fellowship by Analog Devices with the theme of "Design the future", where it felicitated all the 10 teams who were the finalists of year long Anveshan 2020 Design Fellowship Program.
- NEC Hackathon focusing on "Food Wastage", where 20 finalist teams developed sustainable food solution and turns India's food waste problem into opportunity.

## EXTRA-CURRICULAR ACTIVITIES

- Active mentor at Zairza and speaker at GDG Bhubaneswar
- Convenor at Technical Robotics and Software community Zairza and Technical Secretary at OUTR, Bhubaneswar