

AASMA DAHAL

Miami, Florida 33172 | +1-786-354-4926 | aashmadahal1@gmail.com |
adaha005@fiu.edu | <https://www.linkedin.com/in/aasmadahal/>

EDUCATION

Masters of Science in Biomedical Engineering (MS), | Florida Interenational University | 2023
Bachelor in Biomedical Engineering (BE), | Visvesvaraya Technological University, India | 2017

WORK EXPERIENCE

Nobel Medical College Teaching Hospital, Biratnagar, Nepal | Department of Biomedical Engineering | Apr 2018- Present

Head of the Department | July 2018 – Present

- Advise hospital administration on the planning, acquisition, purchase and use of medical equipment.
- Adjust, maintain, repair and provide technical support for all biomedical equipments in hospital.
- Monitor, evaluate and encourage the work of all other staffs in the department

Biomedical Engineer | Apr 2018-july 2018

- Service and maintenance of all medical equipments in various departments of hospital.
- Train doctors, nurses and health professionals about the application and proper use of medical devices in the hospital.

Purbanchal University Teaching Hospital, Gothgaun, Nepal | *Technical counselor* | April 2019-present

- Guide hospital administration on planning and use of medical equipments for the smooth functioning of university hospital
- Provide technical support in procurement of biomedical equipments in university hospital.

Himalayan Darshan College Biratnagar, Nepal | *Teaching Assistant* | July 2017- April 2018

- Guide students in solving problems relating to mathematics and numerical methods.
- Mentor the BSc. CSIT students in labs and help them have a clear understanding of the subject matter.
- Evaluate the students based on assignment and assessments.

RESEARCH WORKS

- Automatic Analysis of Dental Diseases | Feb - Jun 2017
- Published a paper on "Distinguishing Staghorn and Struvite kidney stones using GLCM and Pixel Intensity Parameters" in IJANA-2016.

WORKSHOPS AND SEMINARS

- *Participant*- Occupational Radiation Protection and Dosimetry and Launching of Dosimetry Service in Province No 1 | September 2018|Nepal
- *Presenter*- Review paper "Use of internet of things in medical and health care" | National level technical symposium "Neurotechnoblitz" - 2016 | India
- *Presenter*- Paper "Distinguishing Staghorn and Struvite kidney stones using GLCM and Pixel Intensity Parameters"| National conference on Biomedical Signal and image Processing-2016| India
- *Presenter*- Review paper "Bionic eye" | National level technical symposium Clonoelectric-2015| India

- *Presenter*-Technical Seminar on “Wearable Optical-Digital Assistive Device for Low Vision students” at ACS College of Engineering on February 2017
- *Presenter*- Technical Seminar on “An Off-Bed Detection and Bathroom Accident Monitor System for Nursing Home” at ACS College of Engineering on April 2017

MEMBERSHIPS

Nepal Engineering Association (NEA) | *Member*| 2017 to present

- Organize technical workshops, trainings and seminars in order to improve the technical skills of engineers in Nepal
- Conduct annual elections for the selection of committee member for Nepal Engineering Association

ACHIEVEMENTS

- University 6th Rank in first semester of undergraduate level
- University 10th rank in second semester of undergraduate level
- Best Paper award on a paper, "Distinguishing Staghorn and struvite kidney stone by using GLCM and Pixel Intensity parameters" , in National Conference on Biomedical signal and Image Processing(NCBSI)- 2016 in India
- Fulbright Foreign Student Fellowship (Nepal 2021-2023)

SKILLS

Technical: Matlab, Microsoft Word, Excel, Powerpoint

Languages: Nepali, English, Hindi

VOLUNTARY INVOLVEMENT

- Event manager in various annual programs in ACS College of Engineering | 2015
- Cultural coordinator in annual college fest at ACS college of Engineering | 2016
- Participated in skits and dramas in India to collect funds for the rehabilitation of earthquake victims in Nepal.