


# CURRICULUM VITAE

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**OBJECTIVE:** To play an instrumental role in building the nation through teaching. Research with an orientation towards the nation's needs and disseminating the results on the fast track to reach common man through teaching/guiding and molding students' careers to become the (Indian think tank/workforce) in the future.

## **ACADEMIC AND PROFESSIONAL QUALIFICATIONS:**

<b>Degree /Branch/Specialization</b>	<b>University/Board</b>	<b>CGPA / %</b>
Ph.D. (Under Visvesvaraya Ph.D. Scheme for Electronics & IT, GOI) BME/ Rehabilitation Engineering and Robotics	North-Eastern Hill University (a central university), Shillong, Meghalaya.	4.55 / 6 <b>(Thesis Submitted)</b>

## **AREA OF INTEREST:**

Rehabilitation Engineering, Robotics, Autonomous Navigation Algorithms, Agricultural Robotics, Biomedical Instrumentation, Biomedical Image Processing and, Biomedical Signals and Systems.

## **AWARDS AND ACHIEVEMENTS:**

- Best paper award in the category "Industry Innovation and Infrastructure" at the International IEEE conference BHTC-2020, Bangalore
- Visvesvaraya Ph.D. fellowship by GOI through MHRD and DEITY from April 2016 to March 2021.

### **Publication description:**

#### **International Conference**

- [1] **S. R. Avutu**, S. Paul, V. V. B. A. Prasad, and J. K. Verma, "Modelling of Brushless DC Hub Motor to Control the Speed of Indigenous Powered Wheelchair," in *2020 International Conference on Computational Performance Evaluation (ComPE)*, 2020, pp. 091-094: IEEE
- [2] **S. R. Avutu**, S. Paul, and B. V. Reddy, "Modelling and Comparative Analysis of Direct Drive Wheel for Manual Wheelchair," at *Bangalore Humanitarian Technology Conference, BHTC-2020*

#### **International Journals**

- [1] **A. Sateesh Reddy**, P. Sudip, and B. V. Reddy, "A Review on Wheelchair and Add-in Devices Design for Disabled," *International Journal of Biomedical Engineering and Technology (IJBET)*, accepted for publication. (ESCI)
- [2] **A. Sateesh Reddy**, P. Sudip, "Design and optimization of Direct drive motor Alloy wheel for a manual wheelchair," *International Journal of System Dynamics Applications (IJSDA)* accepted for publication. (ESCI)
- [3] **A. Sateesh Reddy**, P. Sudip, and B. Dinesh, "Design and Feasibility Test of an Indigenous Motorized Wheel for Manual Wheelchair," *International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME)*, vol. 9, no. 3, pp. 42-55, 2019. (ESCI)

#### **Book Chapters**

- [1] **S. R. Avutu**, S. Paul, and D. Bhatia, "Smart Rehabilitation for Neuro-disability: A Review," in *Application of Biomedical Engineering in Neuroscience*: Springer, Singapore, 2019, pp. 477-490.
- [2] **S. R. Avutu**, S. Paul "Artificial Intelligence algorithms for Healthcare and Neuro Rehabilitation Engineering," *Pervasive Healthcare: A Compendium of Critical Factors for success*: Springer, Singapore (accepted for publication).

#### **PATENT APPLIED (Published after application)**

- [1] **S. R. Avutu, S. Paul**, "Autonomous navigation module for powered wheelchair," India No.51/2020 on 18-12-2020.