Dr. EDWIN BENJAMIN

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CAREER OBJECTIVE

Optimistic Agricultural Engineer looking ahead for a challenging career in the field of interest, with a strong will power to take up any task and Endeavour assigned with utmost interest and sincerity.

EDUCATIONAL CREDENTIALS

TAMIL NADU AGRICULTURAL UNIVERSITY

- Doctor of Philosophy in Farm Power and Machinery (2012-16)
- Master of Technology in Agricultural Engineering specialization in Farm Power and Machinery (2009-11)

KERALA AGRICULTURAL UNIVERSITY

- Bachelor of Technology in Agricultural Engineering (2003-07)

WORK EXPERIENCE (8 YEARS)

- Service Engineer in Poljo Industries, Irinjalakuda, Thrissur, Kerala.
- Research assistant and Research associate in DIFM project, KCAET, Tavanur.
- Senior Research Fellow in ICAR-Central Tuber Crop Research Institute, Sreekariyam, Thiruvananthapuram, Kerala.
- Teaching Assistant in ICAR-KVK Palakkad, Kerala Agriculture University.
- Assistant Professor at Dept. of Applied Engineering, Vignan's Foundation for Science, Technology & Research (Deemed to be University), Guntur, Andhra Pradesh.
- Assistant Professor at the Department of Agriculture Engineering, Sri Shakthi Institute of Engineering and Technology, Coimbatore.
- Assistant Professor at the Department of Farm Machinery and Power Engineering, Kelappaji College of Agricultural Engineering and Technology, Kerala Agricultural University, Tavanur, Malappuram.

PUBLICATIONS

- Edwin Benjamin, Aminul Islam, G. Khaleel, K. Hem Chand and Venkateswararao, M. (2024) Development and Analysis of Reciprocating Seed Metering Mechanism for Groundnut. International Journal of Current Research and Academic Review, 12(5), 1-6. doi: https://doi.org/10.20546/ijcrar.2024.1205.001.
- Edwin Benjamin and D. Anatha Krishnan (2020) Analysis of Human Factor Engineering in Banana Harvesting Tools in Tamil Nadu. International Journal of Current Microbiology and Applied Sciences, 9(3):1941-1948. https://doi.org/10.20546/ijcmas.2020.903.226.
- Edwin Benjamin, D. Anatha Krishnan and R. Kavitha (2019) Development of Fertilizer Broadcaster with Electronically Controlled Fluted Roller Metering Mechanism for Paddy Crop. International Journal of Current Microbiology and Applied Sciences, 8(4): 2694-2703. https://doi.org/10.20546/ijcmas.2019.804.313.
- Edwin Benjamin, A.N. Rajesh, Aminul Islam and Jippu Jaicob (2018) Development and Testing of Rotary Mechanism with Manual Feeding for Husking Coconut. Indian Journal of Ecology, 45(3):602 -606.
- Edwin Benjamin and D. Anatha Krishnan (2016) Development of a Banana Harvesting Stand for Reduced Drudgery in Banana Harvesting Operation. Advances in Life Sciences, 5(3): 1004-1009.
- Edwin Benjamin, D. Anatha Krishnan and R. Kavitha (2015) Evaluation of paddy leaf colour analyser for chlorophyll measurement. Trends in Biosciences, 8(23):6672-6677.
- Edwin Benjamin, D. Anatha Krishnanand R. Kavitha (2015) Optimization of Parameters for the Development of Precision Metering Mechanism for Application of Granular Urea. Trends in Biosciences, 8(24): 6849-6853.
- Edwin Benjamin,D. Anatha Krishnan,K. Kathirvel and A.P Mohan Kumar (2013) Ergonomic evaluation of conventional banana harvesting tools for improved operator performance. National seminar on “Ergonomics for Enhanced productivity”, 185-190.
- Mohan Kumar A.P, D. Anatha Krishnan, K. Kathirvel and Edwin Benjamin (2013) Development of ERGO Refined Coconut Tree Climbing Device. National seminar on “Ergonomics for Enhanced productivity”, 191-194.
- Development of a rotary mechanism with manual feeding for husking coconut, Abstract- The 45th Annual Convention of ISAE and International symposium on Water for Agriculture, January 2011.

- Mechanisation in cassava cultivation in India: Present status and prospects, Abstract- National Conference- Tropical tuber crops for the sustenance and welfare of tribal communities. October 2016.

ACADEMIC PROJECTS

- Development of Rotary Mechanism with Manual Feeding for Husking Coconut
- Ergonomic Intervention in Banana Harvesting
- Investigation on Crop, Machine and Operational Parameters Towards the Development of The Sensor-based Variable Rate Fertilizer Applicator
- Design and Development of Seed Metering Mechanism for Groundnut
- Development of Cashew Fruit Collector and Cashew Apple and Nut Separator

RESEARCH INTERESTS

My research interests lie in the development and optimization of farm machinery, with a focus on improving efficiency and sustainability in agricultural practices. I am particularly drawn to ergonomics and its application in designing user-friendly equipment, as well as the integration of variable rate technology in farm cultivation to enhance precision farming. Additionally, I am passionate about advancing small farm mechanization to support resource-constrained farmers and promote inclusive agricultural growth.

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