

MATHOLIYA CHIRAGBHAI SHANTILAL
SHODH Fellow & ICAR Incubatee (Ph.D.) and ASPPE Fellow (M. Tech.)



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Present Address

Block No. 41, Sidhharth residency, Near Sidhharth Inn hotel, New Vavol, Dist.: Gandhinagar,
State: Gujarat, Pin. No.: 382016.

Objective

Prime objective is to keep learning with working in the domain of research and development. I want to utilize my skill, attribute and knowledge to enhance the growth of organization as well as myself. I can be a part of an organization in the field/department of Research & Development, Testing, Training, Export/Import and Manufacturing.

Educational Qualifications

Exam. Passed	Year of Completion	Institute	Subject	Board/ University	C.G.P.A or Percentage or Grade
Ph.D. (Agril. Engg.)	2021	College of Agril. Engg. & Tech., AAU, Godhra	Major Field: Farm Machinery and Power Engineering	Anand Agricultural University	8.06 or 80.60 First Class
M. Tech. (Agril. Engg.)	2018	College of Agril. Engg. & Tech., JAU, Junagadh	Major Field: Farm Machinery and Power Engineering	Junagadh Agricultural University	7.68 or 76.80 First Class
B. Tech. (Agril. Engg.)	2016	College of Agril. Engg. & Tech., JAU, Junagadh	Agricultural Engineering	Junagadh Agricultural University	7.33 or 73.30 First Class
HSC	2012	Ultra Vision Academy, Surendranagar	Science stream (PCM)	GHSEB	80.77 Distinction
SSC	2010	Swaminarayan High School, Ahmedabad	General	GSEB	76.92 Distinction
CCC	2018	All India Computer Saksharta Mission	CCC	ML & EDE, GOI	A

Ph.D. Research Project

- Title: **Development of Autonomous Fertilizer Side Dressing Machine**
- Major Guide: Dr. Pankaj Gupta, HoD, Dept. of FMPE, CAET, AAU, Godhra.

Achievements:

- *Project has selected for Incubation support at Medi-Hub ICAR TBI, Boriavi Anand*
- Got 2nd rank in the pitching session (for technical presentation on my PhD research) in the festival of LJ Innovation Village at LJ institute, Ahmedabad.
- Awarded SHODH fellowship
- Selected in zonal level (for technical presentation on my PhD research) in KRITAGYA AGTECH hackathon organized by ICAR

Post-Graduate Research Project

- Title: **Development and Testing of Battery Powered Guava Harvesting Device**
- Major Guide: Prof. A. L. Vadher, Assistant Professor, Dept of FMPE, CAET, JAU, Junagadh

Achievements:

- Awarded ASPEE Fellowship
- Master's research work done at **ASPEE Agricultural Research and Development Foundation, Malad (W), Mumbai.** (*One year project (master's research) experience from ASPEE ARDF*)
- ASPEE Guide: Dr. S. K. Jain
- 12 Days volunteer work on the occasion of National Farmer's Day at ASPEE Agricultural Research and Development Foundation, Mumbai.

Under-Graduate Research Project

- Title: **Warming Assessment through RCM Simulation for South Saurashtra Region**
- Major Guide: Dr. H. D. Rank, HoD, Dept. of SWE, CAET, JAU, Junagadh.

Internship and Industrial Long-Term Trainings

- 1- 21 Days practical training of Agricultural Mechanization at ASPEE Agricultural Research Development and Foundation, Malad (W), Mumbai from 3rd July 2017 to 22nd July 2017.

❖ **Role and Responsibility:**

- Testing of different types of sprayers, duster, power tiller, chain saw, brush cutter, HTP Pump and other agricultural equipment.
- Group activity and on or off the field discussion with farmers and live demonstration of agricultural equipment.

- 2- Two months internship program of Micro irrigation system at Jain Irrigation Systems Ltd. at Jalgaon (Maharashtra, India) from 1st March 2016 to 30th March 2016.

❖ **Role and Responsibility:**

- One-month theoretical training on micro irrigation (drip & sprinkler irrigation)
- One-month practical training on micro irrigation at Bhuj region
- Design drip irrigation layout and quotation filed for drip irrigation scheme.

- 3- One month summer placement training of Integrated Watershed Management at Development Support Centre at Ahmadabad, Gujarat from 1st June to 30th June 2015.

❖ **Role and Responsibility:**

- Acquired field experience on watershed technology, dam and reservoir technology, soil erosion, at rainfed areas like Alirajpur District and Mahu (Indore), Madhya Pradesh.
- Group activities with farmers on watershed and irrigation technologies
- Field survey on impact analysis of integrated watershed management program on doubling farmers' income in a hilly tribal area of India

- 4- One month summer placement training of Agricultural Mechanization at Northern Region Farm Machinery Training and Testing Institute, Hissar, Haryana 2nd June 2014 to 27th June 2014.

❖ **Role and Responsibility:**

- Testing of tractor, IC engine, tractor engine, combine harvester, reaper, and other agricultural equipment like rotavator, seed drill, planter, disc harrow and etc.
- Theoretical and practical training hands-on
- Brake & Clutch test, PTO test, Belt-pully test, Hydraulic test, Gear box test

Publications

- 6 Research paper in National and International Journals and ResearchGate
- 2 Booklet in International Publication
- 1 Short communication in Journal
- 1 Article in reputed magazine
- 3 Abstract in Souvenir of state convention

Paper and Poster Presentations in Conferences

- Paper presented on the title of “An Approach of Navigation System in Autonomous Vehicle- A Review” in *International Conference on Law, Management, Humanities and Social Science 2020* organized by INFES at Guwahati, Assam on 22nd and 23rd February, 2020.
- Paper presented on the title of “Application of Electric Drives in Agricultural Applications” in *International Conference on Law, Management, Humanities and Social Science 2020* organized by INFES at Guwahati, Assam on 22nd and 23rd February, 2020.
- Paper presented on the title of “Warming Assessment (Temp.) through RCM simulation for six grid points of south Saurashtra region” in the *Virtual National Conference on Strategic Reorientation for Climate Smart Agriculture* organized by Ludhiana Chapter Association of Agrometeorologists & Department of Climate Change and Agricultural Meteorology, PAU, Ludhiana during 17th to 19th March, 2020.
- Poster presented on the title of “Development and Performance Evaluation of Battery Powered Manually Operated Device for Guava Harvesting” in *Annual International Conference on Student Innovation, Start-ups and Ecosystem’ (SSIP)* 6th and 7th June 2019.
- Poster presented on the title of “Development of Sitting type Coconut Palm Climbing Device” in *Annual International Conference on Student Innovation, Start-ups and Ecosystem’ (SSIP)* 6th and 7th June 2019.

Symposium / Workshop / Seminar / Short Term Training

- Participated in “**52nd Annual convention of ISAE and National Symposium on Doubling Farmers’ Income through Technological Interventions**” held at AAU, Anand, Gujarat from 8th to 10th January 2018.
- Participated in the workshop on “GIS using IGIS – GIS & Image Processing” at CAIT. AAU, Anand on 19th August, 2019.
- Participated in the workshop on “Arduino” at SSIP Cell, GEC- Godhra on 17th December, 2019.
- Participated in the National Workshop on “**Enhancement of Farmer’s income through Post Harvest Management**” held on 28th August 2018 at College of FPT & BE, AAU, Anand.
- Participated in the Workshop on “**Role of Farmer Producer Organizations in Enhancing Farmer’s income**” held on 12th and 13th February at IABMI, AAU, Anand.
- Participated in the 2nd State level convention on “**Doubling Farmers’ Income through Resource Management and Rural Prosperity**” held on 12th and 13th October, 2019 at AAU, Anand.
- Participated in one day “**Entrepreneurship Orientation Seminar**” on 20th August 2015 at PG Institute of Agri-Business Management.
- Participated in the career management short term training programmes on **Campus to Corporate, Leadership and Entrepreneurship Development and Empowering Youth through Life Skills** during under graduation.

Camp

- Participated in **NSS Camp, 401st Basic Course in Rock Climbing Camp and Blood Donation Camp** during under and post graduation programme.

Membership

- Admitted to the “**Life Membership**” of the CAET (JAU) Alumni Association since June-2016.
- Admitted to the “**Life Membership**” of the CAET (AAU) Alumni Association since June-2019.
- Member of All India Agricultural Student Association (AIASA).

Extra-Curricular Activities and Achievements

- Participated in the national level events of “**16th All India Inter Agricultural Universities Sports & Games Meet 2015-16**” held at TNAU, Coimbatore, Tamil Nadu from 22nd to 26th February 2016.
- Participated in the national level events of “**17th All India Inter Agricultural Universities Sports & Games Meet 2016-17**” held at CCS HAU, Hisar, Haryana from 25th to 29th March 2017.

- Participated in the state level events (Folk Dance) of “**Inter Agricultural University Cultural Competition**” held at N. M. College of Agriculture, NAU, Navsari during 19th to 20th September 2014.
- Actively participated in cultural programme on the occasion of “**4th Convention of CAET Alumni Association**” held during 25th to 26th October 2012 held at JAU, Junagadh.
- Winner in the event “**Students’ Got Talent**” at Adroit-15 National Tech-Fest on Food Processing organized on the occasion of World Food Day by College of FPT & BE, AAU, Anand during 15th to 17th October 2015.
- Secured first position in “**Folk Dance tournament**” organized by JAU during the year 2014-15.
- Secured first position in “**Athletics tournaments**” (400 and 800 mt running) in the inter collegiate tournament organised by Junagadh Agricultural University consecutively throughout academic year 2014-17.
- Secured 1st position in “**Stage Performance Folk Dance**” event in Protsahan 2014-15 (National Level Management Cum Cultural Fest) held on 26th & 27th September 2014 organized by VM Patel Institute of Management & Centre for Management Studies, Ganpat University.
- Attended bridge course on “**Machine Learning Beginners**” organized by Ganpat University during 29th June to 3rd July, 2020.
- Attended online webinar on “**Career Opportunity in Machine Learning**” organized by Ganpat University in association with ACM Ahmdabad Chapter on 20th June, 2020.

Skills

- Image Processing, IoT & Sensor based Technology, Machine-Vision for Computer Vision (Basic AI), Radio Frequency
- Basic AutoCAD, Creo, MS Office
- Testing of farm machinery and equipment like tractor, sprayer, rotavator, IC engine and other agricultural machinery.

Hobby or Interest

- Sports and Cultural activities, Mountaineering and Rock climbing, Blood donation

E-Learning during Lockdown

- Attended courses related to Agriculture, AI, Python, Arduino & Raspberry Pi, Computer Vision, IoT, Digital skills in “Coursera”, “Accenture”, “agMOOCs” and other online platforms.
- Attended two **faculty development programs** on “Machine Learning for Compute Vision” and “Data Science for all” organized by the Electronics and ICT Academies
- Attended more than 30 national and international webinars, seminar, short term training and quizzes on agriculture, health, Covid19, IPR, AI, IoT, Digital Marketing, Design thinking

References

Dr. Pankaj Gupta

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Dr. R Subbaiah

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Declaration

I hereby declare that all the information given above is true and correct to the best of my knowledge and belief.



Place: Gandhinagar
Date: 27/07/2021

(Chirag S. Matholiya)