

# Curriculum Vitae



**NAME & SURNAME:** Shaban Ghavami Jolandan

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 **ADDRESS, SUBURB, STATE, POSTAL CODE:** Department of Biosystems Engineering, Faculty of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran, Postcode: 61369-84847.

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## PROFESSIONAL PROFILE:

Assistant Professor of Biosystems Engineering in Shahid Chamran University of Ahvaz, IRAN.

## EDUCATION BACKGROUND:

**Ph.D.:** Mechanic of Agricultural Machinery Engineering, University of Tehran, Karaj, Iran (2006-2011).

**Thesis Title:**

“Design, Development and Evaluation of an Expert System for MF 285 Tractor Gearbox Quality Control by Vibration and Sound Analysis based on Fuzzy Logic”

**M.Sc.:** Mechanic of Agricultural Machinery Engineering, University of Tehran, Iran (1999-2002).

**Thesis Title:**

“Investigation of the effect of ball circumference and degree of bleaching on Breakage of Rice Grains in the bleaching device”

**B.Sc.:** Agricultural Machinery Engineering, Urmia University of Urmia, Iran (1995-1999).

**Final Project Title:**

“Construction and performance evaluation of electric furnaces”

## TEACHING AND TRAINING EXPERINCE:

### Undergraduate Courses:

- Dynamics
- Statics
- Strength of Materials
- Material Science
- Training
- Tractor Mechanics
- Production Process

### Graduate Courses:

- Ergonomic
- Mechanization of livestock units

## HONOURS AND AWARDS:

1. Third rank PhD. National Exam for Study Abroad, Mechanical Engineering of Agricultural Machinery, Iran (2002).
2. First place in undergraduate. Mechanical Engineering of Agricultural Machinery, Urmia University, Iran (1999).

## INTERESTS AND RESEARCH FIELDS:

- Renewable energy
- Renewable energy system and their optimization
- Biomass and biological fuels
- Bioenergy production technologies and applications

## RESEARCH ACTIVITIES:

### PUBLICATIONS:

1. Hajinajaf, Sh., Ghavami-Jolandan, Sh., Masoudi, H. (2021). Investigation of effective factors on water production system using land cooling. *Agricultural Engineering (Scientific Journal of Agriculture)*, 44(3).
2. Norouzi, N., Ghavami-Jolandan, Sh., Sheikh Davoodi, M. J., Safieddin Ardabili, S. M. (2020). Optimization of sugarcane bagasse fast pyrolysis conditions using response surface method. *Agricultural Engineering (Scientific Journal of Agriculture)*, 43(3), 357-371.
3. Ali, S., Ghavami-Jolandan, Sh., Zaki Dizaji, H., Hojjati M. (2019). The Effect of Osmotic and Ultrasonic Pre-Treatments on the Quality of Strawberry Drying Process in Hot Air Drying Method. *Journal of Biosystems Engineering*, 50(3), 705-715.
4. Mehregan, H., Ghavami-Jolandan, Sh., Khorasani-Ferdavani, M.E. (2019). Design,

fabrication and evaluation of the tractor's tire pressure control and adjustment system. *Agricultural Engineering (Scientific Journal of Agriculture)*, 42(3), 19-31.

5. Abbaspour-Gilandeh, Y., Khalifeh, A.A., Ghavami-Jolandan, Sh. (2015). Evaluation of factors affecting the required draft force of a curved shape subsoiler tine and prediction of its draft force using multiple-regression model. *Agricultural Engineering (Scientific Journal of Agriculture)*, 38(2), 95-110.
6. Ghavami-Jolandan, Sh., Mobli, H., Ahmadi, H., Omid, M., Mohtasebi, S. S. (2012). Fuzzy-Rule-Based Faults Classification of Gearbox Tractor. *Wseas Transactions on Applied and Theoretical Mechanics*, Issue 2, Volume 7, 69-82.
7. Ghavami-Jolandan, Sh., Borghei, A. M., Tabatabaefar, A. (2005). Effects of Hub Round Speed and Outlet Area in Milling Machine on Breakage of Rice Grains. *Journal of Agricultural Engineering Research*, 22(6), 53-66.

## CONFERENCE PRESENTATIONS:

1. Mehrad, G., Zaki Dizaji, H., Hojjati, M., Ghavami-Jolandan, Sh. (2021). The effect of ultrasound pretreatment on the structure and texture of banana, kiwi and strawberry fruits. 13th National Congress on Biosystems Engineering and Agricultural Mechanization Iran, 15-17 September 2021. Tarbiat Modares University, Tehran, Iran (In Persian).
2. Baghbanian, M., Ghavami-Jolandan, Sh., Safieddin Ardebili, S. M., Sajadiye, S. M. (2021). Simulation of heating from a classic greenhouse floor by cfd method and investigation of the effect of nanofluid on it. 13th National Congress on Biosystems Engineering and Agricultural Mechanization Iran, 15-17 September 2021. Tarbiat Modares University, Tehran, Iran (In Persian).
3. Berenjkozadeh, T., Ghavami-Jolandan, Sh., Safieddin Ardebili, S. M. (2021). Design of solar water desalination equipped with fog sprayer system. 13th National Congress on Biosystems Engineering and Agricultural Mechanization Iran, 15-17 September 2021. Tarbiat Modares University, Tehran, Iran (In Persian).
4. Mousavi Salehi, F., Khorasani Ferdavani, M. E., Ghavami-Jolandan, Sh., Masoudi, H. (2021). Design, construction and evaluation of an unplanted monitoring system for sugarcane billet planter. 13th National Congress on Biosystems Engineering and Agricultural Mechanization Iran, 15-17 September 2021. Tarbiat Modares University, Tehran, Iran (In Persian).
5. Hajinajaf, Sh., Ghavami-Jolandan, Sh., Masoudi, H. (2020). Systems and Methods of Water Production from Air Humidity. The 8th National Conference on Civil Engineering, Architecture and Sustainable Urban Development of Iran, November 5, 2020, Tehran, Iran (In Persian).
6. Norouzi, N., Ghavami-Jolandan, Sh., Sheikh Davoodi, M. J., Safieddin Ardabili, S. M. (2020). Hydrothermal carbonation of sugarcane bagasse to produce bio compressed coal. 8th National Conference on Civil Engineering, Architecture and Sustainable Urban Development of Iran, 5 November 2020. Tehran, Iran (In Persian).
7. Aramnezhad, M., Ghavami-Jolandan, Sh., bahrami, H. (2020). Investigating the Effect of Combine Blower on Analysis and drop-cleaning unit using computational fluid dynamics (CFD). 12th National Congress on Biosystems Engineering and Agricultural Mechanization Ahvaz, 5-7 February 2020 (In Persian).
8. Ghavami-Jolandan, Sh., Ali, S., Zaki Dizaji, H., Hojjati M. (2019). Investigation of the effect of pretreatment on the quality of dried strawberry slices. 2th International Conference on Agricultural and Environmental Development With an Emphasis on the

United Nation Development Program. 19 September 2019 (In Persian).

9. Norouzi, N., Ghavami-Jolandan, Sh., Sheikh Davoodi, M. J., Safieddin Ardabili, S. M. (2019). Investigation of different processes of bio-coal production from agricultural waste and environmental factors affecting these processes. 4th International Conference on the New Horizons in the Agricultural sciences, Natural Resources and Environment, 31 May 2019 (In Persian).
10. Norouzi, N., Ghavami-Jolandan, Sh., Sheikh Davoodi, M. J., Safieddin Ardabili, S. M. (2019). Determination of energy levels from bio-compressed coal prepared from sugarcane bagasse under pyrolysis process at different times and temperatures. 4th International Conference on the New Horizons in the Agricultural sciences, Natural Resources and Environment, 31 May 2019 (In Persian).
11. Ali, S., Ghavami-Jolandan, Sh., Zaki Dizaji, H., Hojjati M. (2018). Study of Energy Consumption of Dried Strawberries by Using Osmotic Pre-Treatment and Ultrasound with Dry Air Flow. 11th National Congress on Biosystems Engineering and Agricultural Mechanization Iran, 3-6 September 2018. Hamadan University, Hamadan, Iran (In Persian).
12. Ghavami-Jolandan, Sh., Mehregan, H., Khorasani-Ferdavani, M.E. (2018). Automatic Tire Pressure Control Systems, Mechanisms and Applications. 11th National Congress on Biosystems Engineering and Agricultural Mechanization Iran, 3-6 September 2018. Hamadan University, Hamadan, Iran (In Persian).
13. Ghavami-Jolandan, Sh., Hajinajaf, Sh. (2018). Evaluation and Color Recognition by Camera and Photoshop Software in Order to Determine  $L * A * B * Color$  Indices. 11th National Congress on Biosystems Engineering and Agricultural Mechanization Iran, 3-6 September 2018. Hamadan University, Hamadan, Iran (In Persian).
14. Aramnezhad, M., Ghavami-Jolandan, Sh., bahrami, H. (2016). Optimal Airflow Pattern Using Computational Fluid Dynamics on Sieves in JD-1055 Combine. 3th International Conference on Applied Research in Agriculture Sciences. 19 February 2016. Tehran University, Tehran, Iran (In Persian).

## RESEARCH PROJECTS:

1. Ghavami-Jolandan, Sh. (2019). Design and Construction of a Dust Micro Particles Refinement System, via Electrostatic Method in Laboratory Scale. Deputy of Research and Technology, Shahid Chamran University of Ahvaz, Ahvaz, Iran (Co-Worker).
2. Ghavami-Jolandan, Sh. (2019). Evaluation of Designed Electrostatic Precipitator using Different Pollutant Dust Micro Particles, in Laboratory Scale. Deputy of Research and Technology, Shahid Chamran University of Ahvaz, Ahvaz, Iran (Responsible executor).

## PATENTS:

1. Patent title: Design and development of row composite tillage for conservation tillage. Registration number: 66571, Registration date: 19/9/2010, Tehran, Iran.
2. Patent title: Design and manufacture of automatic quality control machine for MF 285 tractor gearbox. Registration number: 70070, Registration date: 25/5/2011, Tehran, Iran.

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## PROFESSIONAL MEMBERSHIPS:

### Member:

Member of Iranian Society of Agricultural Machinery and Mechanization Engineers.

### Domestic Journals Referee:

Referee of innovative projects and patents, Growth Center of Technology Units, Shahid Chamran University of Ahvaz, Iran.

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## LANGUAGES:

**PERSIAN:** Native

**ENGLISH:** Good

**TURKISH:** Native