CURRICULUM VITAE

1- Surname: Mostofi Sarkari

2- **First name:** Mohammad Reza

3- Title: Mr. * Dr. *

4- Date of birth: 27/03/1967

5- **Place of birth: Tabriz-Iran**

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10- Professional qualifications:

1. B.Sc. in Agricultural Machinery Engineering from- Tabriz University (Iran), Oct. 1986-1990.

2. M.Sc. in Mechanics of Agricultural Machinery Engineering from- Tehran University (Iran), Oct.1991 - 1993.

Title of M.Sc. thesis: Design, Construction and Evaluation of Tractor mounted Mower-Binder Performance.

1. - Ph.D. in – Bio-system Engineering from –Cranfield University – Silsoe (England), May 1997-March 2001.

Title of Ph.D. dissertation: Mass Flow Rate Measurement System for Root Crop Harvesting

11- Current position in AERI:

Member of academic staff on Bio-system engineering and Mechanization Department (Associate Professor)

12- Professional employment history:

1992-1997 Agricultural Engineering Research Institute -Karaj-Iran
Member of staff (MSc)

1997-2001 Cranfield University at Silsoe – England – Studding PhD

2001- Present Agricultural Engineering Research Institute -Karaj-Iran
Member of academic staff (PhD) in Bio-system Engineering and Mechanization Department

13- **Research interests:**

1- Design, construction and modification of farm machinery and implements prototype
2- New technology in Harvesting machinery of agricultural products
3- Precision Farming (Yield Monitoring and Mapping Systems)
4- Conservation Agriculture (Residue Harvesting machinery)
5- GPS/GIS Application in Spot Agriculture
6- Research Program Planning And Formulation
7- Smart Agriculture based on IOT

14- **Awards/Inventions:**

1- Tractor Mounted Mower Binder-National Invention
2- Cotton Stalk Puller- National Invention
3- Developed Tractor Mounted Mower Binder- National Invention
4- Fodder Beet Cleaner-Chopper Machine- National Invention

5- International Certificates:

- RESEARCH PROGRAMME FORMULATION (ISNAR PROGRAMME)

6- Membership in national and international scientific societies:

1- Agricultural Machinery Engineering and Mechanization Society
2- Iranian Society of Mechanical Engineering

3- **Other research activities:**

1- Assessment and research on important parameters of cotton harvesting and chopper performance-(MSc thesis) Second Supervisor.

2- Introducing arithmetic module and appropriate pattern of technical and mechanical performance of tractors in homogenous unit in Khorasan province-(PhD dissertation) Adviser.

4- Design, construction and test of continuous measurement sensor of mechanical soil resistance - (MSc thesis) Adviser.

5- Assessment of feasibility study of mechanized harvesting of orange using branch shaker in north of country (Ramsar) - (MSc thesis) Second Supervisor.

6- Technical and Economical Assessment of Feasibility Study of Precision Farming Systems on Different Wheat Production Stages in Dezful - (MSc Thesis) Supervisor.

7- Publications (in English):

Journal papers:

2. Investigation on Performance of a Continuous Mass Flow Rate Measurement System for Potato Harvesting- Agricultural Engineering International: the CIGR E-Journal. Manuscript PM 06 031. Vol. IX. May 2007.

3. Evaluation of a cotton stalk puller performance. 2008. American- Eurasian Journal of sustainable agriculture. 2(1): 19-24.

4. Mass Flow Rate Measurement System Performance. 2009. Journal of Agricultural Science and Technology. Vol. 11: 259-274.

5. Field Evaluation of Grain Loss Monitoring on Combine JD 955 – 2010. Advance in Environmental Biology, 4(2): 162-167, ISSN 1995-0756.

6. Performance evaluation of mass flow rate measurement system for root crop harvesting to precision farming application-2011-Sustainable Agricultural Science Journal-Vol.(20), No. 4-2011-ISSN 2008-5141.

7. Energy and economic analysis of different seed corn harvesting systems in Iran. Energy 43 (1), 469-476.

8. Investigation and technical comparison of new and conventional wheat combines performance for improvement and modification. Agricultural Engineering International: CIGR Journal 13 (3).

9. Mass flow rate measurement system performance on potato harvesters. Journal of Agricultural Science and Technology 11, 259-274.
10. Evaluation of a cotton stalk puller performance. American-Eurasian Journal of sustainable agriculture.
11. Optimization of seed corn harvesting losses applying response surface methodology. Research Journal of Applied Sciences, Engineering and Technology 4 (15).
12. Technical and Economical Assessment of Applying Precision Farming Using Mathematical Model on Irrigated Wheat Production. Journal of Multidisciplinary Engineering Science and Technology (JMEST) 2 (2).
13. Economical and Technical Study of Precision Farming Application in Conventional System of the Wheat Production in Two Agro-Industry Companies of Khuzestan Province. American Association for Science and Technology (AASCIT).
14. Evaluation of yield monitoring and mapping system performance in harvesting cereals. Agricultural Engineering Research Institute of Iran AERI.

8- Conference papers (International):

1- Mass Flow Rate Measurement System for Root Crop Harvesting – International conference of Euro agricultural engineering research 2002 – Budapest – Hungary.
2- Design, Construction and Evaluation of Cotton Stalk Puller Performance - International conference of agricultural engineering research 2004 – China.
3- Agricultural Mechanization Development Methods – First international conference – Karaj – college of agriculture, University of Tehran. I. R. of Iran, 2004.
4- Evaluation of cotton stalk puller performance – International Agricultural Engineering Conference – Bangkok – 2005.
5- Performance Evaluation of a Continuous Mass Flow Rate Measurement System for Root Crop Harvesting- World Congress, Bonn/Germany, Sep. 2006.

9- Field Evaluation of Grain Loss Monitor in Different Harvesting Conditions on Combine JD 955- 10th **International Congress on Mechanization and Energy in Agriculture, 14-17 October 2**008- Antalia-Turkey.

10- Investigation and technical comparison of new and conventional wheat combines performance to improve and modification-10th **International Congress on Mechanization and Energy in Agriculture, 14-17 October 2**008- Antalia-Turkey.

11- <u>Other publications</u> (book)**:**

1- Precision Farming –2010- by Terry Brase - Translated by Mostofi, M. R. and A. Sharifi.

2- <u>Persian Journal papers:</u>

1. Emerging Technologies in Agricultural Engineering Plant Bio-Engineering.
2. Date palm leaf pruning machine.
3. Investigation on Performance of a Continuous Mass Flow Rate Measurement System for Potato Harvesting- Agricultural Engineering International: the CIGR E-Journal. Manuscript PM 06 031. Vol. IX. May 2007.
4. Performance evaluation of cotton stalk puller. Journal of Agricultural Engineering Research. Vol. 7 No: 29 March, 2007.

3- <u>Conference papers (National):</u>

1- Mass Flow Rate Measurement System for Root Crop Harvesting (potatoes/sugar beet) – Second national conference of Agricultural Machinery Engineering and Mechanization Society 2003 – Tehran – Iran.

2- Design, Construction and Evaluation of Cotton Stalk Puller Performance -Third national conference of Agricultural Machinery Engineering and Mechanization Society 2004 – Kerman – Iran.

3- Wheat Losses from planting to storage in country-National conference of avoiding resource losses- 2005- Academic science -Tehran – Iran.

4- Assessment and determination of corn harvesting losses to introduce proper strategy for decreasing losses- Second national symposium on losses of agricultural products- 2005- Tehran – Iran.

5- Proper machines to harvesting silage crops in order to protect quality of harvested crop- 2005- First national conference of silage crops- Tehran-Iran.

6- **Research projects Reports:**

1. Tractor mounted mower binder.
2. Date palm leaf pruning machine.
3. Feasibility of using combines harvesting to harvest legumes.
4. Assessment possibility of mechanized harvesting of two bean cultivars and economical comparison with conventional method.
5. Mass flow rate measurement system for root crop harvesting.
6. Design, construction and evaluation of cotton stalk puller performance.
7. Assessment and determination of corn harvesting losses to introduce proper strategy for decreasing losses.
8. Investigation on performance evaluation of grain loss monitor on combine harvesting.
9. Assessment and comparison of new combines with conventional types to recommend modification and improvement parameters.
10. Investigation of suitable method of mechanized corn residues harvesting based on quality and quantity of harvested residues and machine performance parameters.
11. Design, construction and performance evaluation of tractor mounted date palm leaf pruning machine
12. Conceptual Design of Proper Tractor Mounted Date Palm Lifter/Service Machine
13. Design, construction and field evaluation of fodder beet chopper (ongoing project)
14. Smart agriculture to producing wheat and barley based on Internet of things (IOT) (ongoing project)

7- Research Projects Underway:

1. Assessment and Field Evaluation of Grain Loss Monitor Performance on Combine Harvesting JD 1165.
2. Installation, Calibration and Field Evaluation of Yield Monitoring and Mapping System Performance on Combine Harvesting JD 1165.
3. Investigation on the Methods of Controlling Quantity and Quality Losses of Alfalfa during the Harvesting and Baling Process (research plan with 6 research projects).
4. Development and Field Evaluation of Tractor-Mounted Date Palm Leaf Pruning Machine Performance.
5. Design, Construction and Field Evaluation of Tractor Three Point Hitch Date Palm Lifter Performance.

8- Other publications:

1- Tractor-Mounted Mower Binder–1997-Agricultural Educational Leaflet.

2- Date Palm Leaf Pruning Machine–1997-Agricultural Educational Leaflet.