



CV for: **YASIN OSROOSH**
Address: Department of Water Engineering
Faculty of Agriculture
Buali Sina University
Hamadan, Iran
Cell phone: +98 912 551 8548
E-mail: yosroosh[at]basu.ac.ir
ossroosh[at]yahoo.com

*Yasin is currently a graduate student in Irrigation Engineering. In the career, he firmly believes in the power of **creative idea**, **discipline**, and **perseverance**. Results of his endeavors are achieving new technologies, some of which have been published or patented.*

Education

- M.Sc. Student, Irrigation and Drainage Engineering, Faculty of Agriculture, Buali Sina University, Hamedan, Iran. <http://basu.ac.ir>
- B.Sc. in Irrigation Engineering, College of Agriculture, Isfahan University of Technology, Isfahan, Iran (June 2003). <http://iut.ac.ir>

Membership

1. Iranian Inventors Association #2413. <http://iran-inventors.com>
2. Irrigation & Drainage Research Group, Leader. <http://soilwaterplant.com>

IR Patents

1. A Computer-based **Central Control System** for Pressurized Irrigation, #47238.
2. 3-Station **Ultrasonic Range Finder** for Laboratory Flumes, #47229.
3. A Low-Cost **Soil Moisture Sensor**, #47223.
4. Computer-based Data-Logging System of **Weighing Lysimeters**, #47221.
5. Small and Low-Cost **Programmable Drip Irrigation Package** for Watering Indoor Ornamental Plants, #37660.
6. VFD-based Intelligent Pumping System, (Software & Hardware) Generating **Variable Inflow Hydrograph** for Surface Irrigation, #42985.
7. **Wetting Front Sensors** for Surface Irrigation, #42984.
8. **Surge Flow** Irrigation Valve, #42986.

Research & Projects

- VFD-based **intelligent pumping system** (software & hardware), **Iran Water Resources Management Company (WRM)**, 2007.
 - **3-Station Ultrasonic range finder** for open channels, Irrigation Department
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(Pakdasht), College of Aboureyhan, Tehran University, 2007.

- [VFD-based pumping system](#) for unsteady-state flow investigation, Department of Irrigation & Reclamation (Karaj), College of Agriculture & Natural Resources, University of Tehran, 2007.
- Control and automation of irrigation system of [Azadi Square \(Tehran\)](#), 2007.
- Computer-based data-logging system of [weighing lysimeters](#) station, Department of Irrigation & Reclamation (Karaj), College of Agriculture & Natural Resources, University of Tehran, 2007.
- [Computational schematic](#) idea for computerizing the analysis of hydraulic systems, 2005.
- Analysis of hydraulic phenomena with an [electric approach](#) (applied expansion of analog systems), 2005.
- [Computer-based controller](#) for scheduling irrigation, software (graphical user interface) & hardware (electronics), 2005.
- [VFD-based pumping](#) system supplying constant water pressure for residential and commercial buildings, 2005.
- Automatic [water level recorder](#) based on ultrasonic technology, 2003.
- [Ground-marine vehicle](#), scientific competition of IUT (Isfahan University of Technology) mechanical department, Isfahan, Iran, 2001.

Papers

- [Osroosh, Y.](#), A. Yari, S. S. Eslamian, A. Kermaniha, A. Payam, M. Vatan Ara, H. Jamshidi Pour, A. Pouramin, A. Falahkohan and F. Milanian, 2007, Development of Central Control System for Pressurized Irrigation Systems, Proceedings of the first Workshop on Automation of Pressurized Irrigation Systems, Iranian National Committee on Irrigation and Drainage (IRNCID), Karaj, Iran.
- Mostafazadeh, B., [Y. Osroosh](#) and S. Eslamian, 2006, Development and evaluation of an automatic surge flow irrigation system, Journal of Agriculture & Social Sciences, Vol. 2, No. 3, 129-132.
- Mostafazadeh, B. and [Y. Osroosh](#), 2006, Surface irrigation with a variable inflow hydrograph. First international conference on sustainable irrigation management, technologies and policies, 5-7 September, Bologna, Italy, 3-11.
- [Osroosh, Y.](#), B. Mostafazadeh and S. Eslamian, 2005, Wetting front sensors for surface irrigation. Proceedings of the Workshop on Mechanized Surface

Irrigation, Iranian National Committee on Irrigation and Drainage (IRNCID), Dec. 4, Karaj, Iran, PP. 125-133.

- Osroosh Y., Eslamian, S. S. and M. Zoghi, 2004, Impact of hydraulic structures on time of concentration, First National Congress on Civil Engineering, Sharif University of Technology, Iran.
- Osroosh Y., Mostafazadeh B. and S. S. Eslamian, 2004, Design, manufacturing and calibration of automatic on and off water delivery system for surge flow irrigation, First National Conference on Watershed and Soil & Water Management, Shahid Bahonar University of Kerman, Iran.
- Osroosh Y., Mostafazadeh B. and S. S. Eslamian, 2003, Design and manufacturing of automatic water level recorder, Eight National Seminar on Irrigation & Evapotranspiration, Shahid Bahonar University of Kerman, Iran.
- Eslamian, S. S. and Y. Osroosh, 2003, Evaluating impact of dam construction on climatic parameters, 3rd Regional Conference and First National Conference on Climate Change, Isfahan University, Iran.
- Behzadi-Nasab, M., Eslamian S. S. and Y. Osroosh, 2002, Influence of water pumping on groundwater surface level in west region of Dez irrigation network, First Student Conference on Soil and Water Resources, 284-292, Urumia University, Iran.

Skills

- Programming: Working knowledge of Visual Basic .Net, MATLAB, Assembly-MCS51, Basic-AVR
- Familiar with Orcad, Protel, EWB (Electronic Work Bench), Macromedia Flash, 3D Studio Max, Adobe Photoshop, AutoCAD, etc.

Experiences

- Intelligent pumping systems, VFD (Variable Frequency Drive) driven electro pumps, and Computer-based intelligent irrigation systems
- Computer-based Controllers, Controller design (AVR Microcontrollers), Analog to Digital Converters, Power Circuitry of Pumping Systems, Sensors, and General Purpose Electronic Design

Activities

- Reviewer for Proposed Papers, [Journal of Irrigation and Drainage Engineering](http://www.pubs.asce.org/journals/irrigation) for ASCE (American Society of Civil Engineers).
<http://www.pubs.asce.org/journals/irrigation>

Research Interest

- A rapid method for in situ measurement of soil **unsaturated hydraulic conductivity** with **electrical conductivity** (current)

Nonacademic Skills

Painting:

- Drawing, Color Pencil, Soft Pastel, Oil Color
 - My own technique (Innovative)
- <http://thesoundsofart.ning.com/profile/YasinOsroosh>

Literature:

- Poetry (Persian)

Sport:

- Four main techniques of Swimming: the breaststroke, the butterfly, the crawl and the back

Language Proficiency:

- Persian (First Language)
- English (Fluent in Reading, Writing and Listening)
- Arabic (Good Knowledge)

****References available upon request****

*Certification, articles and other documents are available to **deliver**, **translate** or **scan***