

Erfan Mozaffari Ahrar

PERSONAL INFORMATION

Dep. of Computer Eng.
Bu-Ali Sina University, Hamadan, Iran

E-mail: erfanmozaffari@yahoo.com

EDUCATION

M.Sc. in Computer Science - Computer Networking, Computer Engineering
Department of Bu-Ali Sina University, Hamadan, Iran, *September 2013-Due January 2016.*

- **Overall GPA:** 4/4
- **Thesis Title:** “A reliable and delay bounded MAC mechanism for 802.15.4e wireless sensor networks with convergecast traffic” (19.5/20)
Supervisor: Dr. Mohammad Nassiri.
Advisor: Dr. Seyed Vahid Azhari.

B.Sc. in Computer Science - Software Engineering, Computer Engineering
Department Bu-Ali Sina University, Hamadan, Iran, *September 2009-Due September 2013.*

- **Overall GPA:** 3.67/4
- **Thesis Title:** “HPC Clustering for Engineering Usage” (20/20)
Supervisors: Dr. Mahdi Abbasi.

Diploma in Mathematics and Physics, Haji Babae High School, Hamadan, Iran,
September 2006-Due September 2009.

- **Overall GPA:** 4/4

INTERESTS

- Low-power wireless mesh networks
- Multihop Wireless Networks: network and MAC layers
- The Industrial Internet of Things
- Standards and Protocols for the Internet of Things

EXPERIENCES

Instructor

- **Network Security**, Bu-Ali Sina University, *Fall 2018.*
- **Computer Programming Basics**, Bu-Ali Sina University, *Fall 2018.*
- **Computer Programming Basics**, Bu-Ali Sina University, *Summer 2016.*
- **Computer Networking lab**, Bu-Ali Sina University, *Winter 2016.*
- **Operating Systems lab**, Bu-Ali Sina University, *Fall 2016.*
- **Computer Networking lab**, Bu-Ali Sina University, *Winter 2015.*
- **Computer Programming Basics**, Bu-Ali Sina University, *Summer 2015.*

Research Assistant

- Research Assistant in the Wireless Networks Lab, Bu-Ali Sina University, Hamadan, Iran, *Fall. 2017 up to now.* Supervisor: Dr. Mohammad Nassiri

Teaching Assistant

- **Computer Networking**, Bu-Ali Sina University, Instructor: Dr. M. Nassiri, *Fall 2013-2016.*
- **Network Security**, Islamic Azad University, Instructor: Dr. M. Nassiri, *Fall 2013-2016.*
- **Network Security**, Bu-Ali Sina University, Instructor: Dr. M. Nassiri, *Fall 2013.*
- **Internet Engineering**, Bu-Ali Sina University, Instructor: Dr. M. Nassiri, *Winter 2013.*
- **Micro Processors**, Bu-Ali Sina University, Instructor: Dr. M. Abbasi, *Fall 2012.*

- **Advanced Computer Programming**, Bu-Ali Sina University, Instructor: [Dr. M. Nassiri](#), *Winter 2013*. (Chief TA)
- **Circuit Logics**, Bu-Ali Sina University, Instructor: [Dr. M. Abbasi](#), *Fall 2010-2012*.

Judge

- ◇ **Chief Judge**, West of Iran's ACM Programming Contest, *2017*.
- ◇ **Problem Setter and Judge**, Local Weekly ACM Programming Contest at the Bu-Ali Sina University, *2016*.
- ◇ **Article reviewer**, 8th International Conference on Information and Knowledge Technology (IKT), *September 2016*.
- ◇ **Problem Setter and Judge**, ACM Programming Contest at the Bu-Ali Sina University, *2015*.

Job

- **Jameh Pardazan Corporation**, Hamadan, Iran, *Summer 2010-Fall 2010*. "Network Administrator"

PUBLICATIONS Journal Papers

- **Erfan Mozaffari Ahrar**, Mohammad Nassiri, "T2AS: Topology/Traffic Aware Scheduling to Optimize the End-to-end Delay in IEEE802.154e-TSCH Networks". (On Preparation)
- **Erfan Mozaffari Ahrar**, Mohammad Nassiri, Fabrice Theoleyre, "Multipath aware Scheduling for High Reliability and Fault Tolerance in Low Power Industrial Networks". (On Preparation)

Conference Papers

- **Erfan Mozaffari Ahrar**, Mohammad Nassiri, Vahid Azhari, Farhad Dalirani, "A Topology Aware Centralized Scheduling in 802.15.4e Wireless Sensor Networks", 7th *International Conference on Information and Knowledge Technology, Urmia, Iran, 2015*.

HONORS and AWARDS

- ◇ **1st Rank**, among all Master's students of Computer Engineering in Bu-Ali Sina University, *Summer 2016*.
- ◇ **Best Paper**, One of the four papers selected for awardee in 7th IKT Conference, *Spring 2015*. (persian)
- ◇ **2nd Rank**, among 35 BSc students which qualified me to enter MSc without entrance exam in Bu-Ali Sina University, *Summer 2013*.
- ◇ **3rd Rank**, at the Bu-Ali Sina University ACM Programming Contest among more than 20 Teams, *Fall 2013*.

SKILLS

Computer Skills

- **Task/Document Manager**: Atlassian Confluence, Jira.
- **Version Controller**: GIT.
- **Network simulator**: OpenWSN, NS2.
- **Programming (Advance)**: C/C++, Python, Django.
- **Programming (Familiar)**: C#, Matlab, Prolog, VHDL.
- **Database**: MySQL, Access, SQLite.
- **Operating Systems**: Windows, Linux.
- **IDE**: Code::Blocks, PyCharm, CLion, Microsoft Visual Studio.
- **Editor**: vim, Visual Studio Code, Sublime, Notepad++.
- **General Software**: Microsoft Office, LaTeX.
- **Design Tool**: Photoshop.

- **Software Architecture Tool (Familiar):** Rational Rose.

LANGUAGES

- **English:** Upper Intermediate.
- **Persian:** Mother Tongue.
- **Turkish:** Fluent.

Extracurricular Activities

- **Sports:** Football, Handball, Running, Climbing.