Amir H. Askari

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Education

Sep. 2018–Now   **B.Sc. in Computer Engineering**, GPA: 16.29/20, Amirkabir University, Tehran, Iran.

- Robotics: 4/4
- Artificial Intelligence: 4/4
- Research and Technical Presentation: 4/4
- Operating Systems: 4/4
- Computer Networks: 4/4
- Information Retrieval: 4/4
- Algorithm Design : 4/4

Sep. 2014– May 2018   **Diploma in Mathematics**, GPA: 18.89/20, Shahid Beheshti NODET High School, Semnan, Iran.

Research Interests

- **Neural Networks**
- **Deep learning**
- **Intelligence singularity**
- **Machine learning**

Course Projects

- **Information Retrieval**
  Search Engine Project: use python to develop search engine, and apply tf-idf, clustering(K-means), Index representation.
- **Computer Networks**
  DHCP server Project: use python to develop DHCP Clients and Server, and apply Broadcasting, UDP, multi-threading.
- **Database Design**
  Foofle Project: use scala and Mysql to emulate gmail and design databases.
- **Robotics**
  ROS Project: use ROS and gazebo11 stack with python to design robot use laser scan for obstacle avoidance and make tour in funny world.

Publications

- Alireza Ghorbani and Amirhossein Askari and Mehdi Malekan and Mahmoud Nili Ahmadabadi, "Thermodynamically-Guided Machine Learning Modelling for Predicting the Glass-Forming Ability (GFA) of Bulk Metallic Glasses," in *UNPUBLISHED*, vol. 00, no. 0, pp. 00-00, Month, year.

Teaching Experiences

Feb. 2021 **Teaching Assistant**, Embedded and Real-Time Systems Under the supervision of Dr. Hamed farbeh, Amikabir Univ. of Tech., Tehran, Iran.

Feb. 2021 **Teaching Assistant**, Research and Technical Presentation Under the supervision of Prof. Reza Safabakhsh, Amikabir Univ. of Tech., Tehran, Iran.

Work Experiences

June 2021–Now **Industry4.0 Researcher**, Inotec of Amirkabir Univ., under supervision of Dr. Zarandi.

- We work on industry4.0 and apply it to the mining industry base on industry4.0 enablers CSP, IoT, Big Data, Decentralize computing, and wireless network systems.

Dec. 2020–Now **AI Engineer**, Heyva, stack: Python, NLP toolkits, Rasa, Keras/PyTorch.

- We work on deep neural network and apply it to recognize human sound and response to it.

Oct. 2020–July 2021 **Embedded Software Developer**, Crouse, under supervision of Dr. Zarandi.

- We work on V-model and software architecture with C and Linux base on bare-metal and Real-time systems.

Aug. 2020–Oct. 2020 **Embedded Linux Developer**, Partodadeh, stack: CPP, makefile, buildroot, Yocto, Cross compile.

Sep. 2019–April 2020 **Back-End Developer**, Pnashr, stack: Php7, Laravel, MySql, Git, Docker, RabbitMQ, Minio.

- We work on healthcare platform to provide good general knowledge with android application.

Activities

- IEEE Real-Time Systems Symposium (RTSS 2020), IEEE Computer Society, Underline(Online), Dec. 2020

Honors & Awards

- Excellent entrance at Amirkabir University, Fall 2018

- Achieved top 0.1 percent place among all applicants of the from Amirkabir University Nationwide University Entrance Exam from B.Sc. in Math. and Engineering (170000 applicants), Iran, 2018.
- Reached the Second Round of National Mathematics Olympiad [2016] from Mathematics Olympiad
- Reached the Second Round of National Computer Olympiad [2016] from Computer Olympiad
- Certificate Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning from Deeplearning.ai (Laurence Moroney) (www.coursera.org) April 2021
- Certificate Deep Learning Specialization from Deeplearning.ai (Andrew Ng) (www.coursera.org) April 2021
- Certificate Deep learning-based NLP by tensorflow from Amirkabir Univ. of Tech. (www.ceit.aut.ac.ir) June. 2020

Skills

- **Programming Languages**
  Python, Scala, C, VHDL, Golang, Bash Scripting, Java, AVR programming(Arduino)
- **Database Systems**
  Mysql, MongoDB, Redis
- **Operating Systems**
  Windows, Linux(Ubuntu, CentOS, Arch)
- **Web Development**
  PHP7, Laravel Framework(PHP), Play Framework(Scala), Django Framework(Python) HTML, CSS, JavaScript
- **AI development**
  Tensoflow, Keras, Numpy, Pandas, Scikit-learn
- **Micro-service Systems**
  Docker, Minio, Git, Virtualization Vmware Vsphere Esxi Hyper-v

Languages

- **Persian:** Mother tongue (Native)
- **English:** Professional working proficiency

References

- **Hamid R. Zarandi, Associate Professor**
  Department Head, Member of Computer Architecture Group, Computer Engineering Dept., AUT, Tehran, Iran. **Email**: h_zarandi@aut.ac.ir

- **Reza Safabakhsh, Professor**
  Member of Artificial Intelligence and Robotics Group, Computer Engineering Dept., AUT, Tehran, Iran. **Email**: safa@aut.ac.ir