Yasin Zamani

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EDUCATION

- **Ph.D. Electrical and Computer Engineering**
  University of Utah *(Top 100 in U.S.), Since 2019*
  Courses (CGPA: 4/4): Advanced Algorithms, Advanced Programming, Parallel Programming (GPU & CPU)
- **Ph.D. Computer Science**
  Sharif University of Technology *(Top 5 in Iran), 2013-2019*
  Courses: Machine Learning, Image Processing
- **M.Sc. Computer Science**
  Isfahan University of Technology *(Top 5 in Iran), 2010–2012*
  Exceptional Talent Student - 1^{st} rank / 20
- **B.Sc. Computer Science**
  Isfahan University of Technology *(Top 5 in Iran), 2006-2010*
  Exceptional Talent Student - 2^{nd} rank / 40

EXPERIENCE

- **Research Assistant** [Google Scholar]
  Electronic Design Automation, High Performance Computing, Computational Neuroscience, Computer Vision
- **Teaching Assistant**
  Artificial Intelligence, Digital Image & Video Processing, 3D Computer Vision, Object Oriented Design, C++ Programming, Data Structures

ACHIEVEMENTS & HONORS

- **Keynote Speaker**
  Soft Computing and Big Data Seminar
  K.N.Toosi University of Technology, 2016
- **University President Award**
  Exceptional Talent Student (Top 3)
  Isfahan University of Technology, 2008–2012
- **Honorable Mention**
  ACM Asia Programming Contest
  Tehran Site (Regional Contest), 2008–2009

SKILLS

- **Programming**
  Modern C++ Multi-Threading, OpenMP, CUDA, MPI, Taskflow, Python, Matlab
- **Patterns & Practices**
  Object Oriented Programming, Functional Programming, Test-Driven Development, Logic Programming

PROJECTS

- **OpenTimer** [github.com/OpenTimer]
  Develop a GPU-accelerated pessimism removal of timing analysis algorithm *(ongoing project)*
  Modern C++, CUDA
- **Taskflow** [taskflow.github.io]
  Develop a CPU-based parallel sorting algorithm *(added to Taskflow 3.0.0)*
  Modern C++, CUDA
- **Debris** [github.com/Ya-Za/debris]
  Develop a space debris identification and tracking system based on a real-time, adaptive motion processing algorithm *(supported by NASA)*
  Matlab
- **SVGLM** [github.com/Ya-Za/SVGLM]
  Develop a computational neuroscience model to describe the brain circuits underlying visual stability across eye movements *(published in PLoS)*
  Matlab
- **4D-BIM** [github.com/Ya-Za/SVGLM]
  Develop a 4D Building Information Modeling software solution for a more realistic construction schedule plan *(best paper award)*
  C#