thz.hamed@gmail.com linkedin.com/in/hamed-thz-me/

Vancouver, BC 604-841-1019

PROFESSIONAL SUMMARY

Skilled Software Engineer and Developer with six years of experience in programming utilizing languages such as C++, Fortran, Python, Maple, and MATLAB. Excelling in solving complex mechanical and mathematical problems using numerical methods and developing customized programs for efficient solutions. Demonstrating excellent problemsolving and troubleshooting skills, adept at swiftly adapting to new technologies and methodologies. A team player with strong communication skills, known for a positive attitude that drives collaborative success. Passionate about contributing innovative thinking and expertise to a dynamic software development team.

TECHNICAL SKILLS

- Programming Languages: Python, C++, Fortran, Mathematica
- Object-Oriented Design: Proficiency in utilizing UML (Unified Modeling Language)
- **Data Structures and Algorithms** Version Control Systems: Git
- Software Testing and Debugging Web Development: HTML, CSS, PHP
- **Database Management: SQL**
- Operating Systems: Windows, Linux, MacOS
- Numerical Calculation and Mathematical Functions: Utilizing numerical computation techniques and mathematical functions in software development (NumPy, MATLAB, Mathematica, Maple)

PROFESSIONAL EXPERIENCE

Software developer, freelancer Dresden, Germany

2021-2023

- Increased performance and integration through UML diagram redesign and Python class implementation in C++.
- Enhanced Vibrawise Software by implementing various mechanical structures and employing diverse methods for troubleshooting and finding solutions.
- Enhanced the software's usability by integrating a graphical user interface (GUI) tailored.
- Introduced new features to assist users in avoiding fundamental mistakes.
- Designed algorithms to solve nonlinear problems using training data.
- Implemented a function to verify shells based on shell theory.

Software Engineer, Taras Shevchenko National University of Kyiv, Ukraine

2018-2021

- Processed a range of documentation and entered information into databases.
- Provided training, coaching, and supervision to onboard new staff members, ensuring seamless adoption of new software and hardware systems while safeguarding data integrity during the transition from legacy systems.
- Made the applied program for the members
- Contributed to website maintenance and updates by modifying HTML and CSS codes, seamlessly incorporating new information, and removing outdated content to ensure a streamlined and up-to-date web presence.
- Responsible for the enhancements and maintenance of staffs' computers

Software Engineer, UkrFreeTrading ,Kharkov, Ukraine

2018-2019

- Monitored market trends and fluctuations, developed programs to automate tasks,
- Performed data extraction and information retrieval from websites to gather valuable insights.
- Assisted management in identifying workflow challenges and devising effective solutions by developing an online cartable and dashboard system.
- Implemented document classification and version control systems to ensure data integrity and prevent misuse. Developed a robust backup system to safeguard critical data.
- Provided valuable assistance to management in the selection and implementation of new hardware and software solutions.

Hamed Taherzadeh

Software Engineer and Developer

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PROFESSIONAL EXPERIENCE (Continued)

Researcher Mechanical Engineering, Problems of NAS of Ukraine, Kharkov

2014-2017

- Utilized coding in Maple and Mathematica to develop mathematical models specifically for nonlinear geometric shells.
- Leveraged CUDA technology to harness the power of graphics cards for accelerated computational speed.
- Identified the optimal basis function for solving linear and nonlinear vibrations in thin cantilever shells
- Utilized numerical methods to solve nonlinear differential equations.
- Designed software with high accuracy for solving linear vibrations of shells with varying boundary conditions.
- Attained precise and realistic results in the nonlinear section that align with experimental findings.

Quality Assurance Specialist, Tehran, Iran

2001-2004

- Improved the effectiveness of quality control procedures, resulting in a 60% increase in production quality over two years and earning the "Supplier of the Year" award from LOLO Holdings for outstanding quality improvements.
- Spearheaded the adoption of Quality Management Systems at Saffir Sepid Co.
- Disseminated acquired insights and expertise among all staff members.
- Created visual instructional materials to facilitate understanding and knowledge-sharing among team members.
 Designed an optimized test cycle for product testing purposes.

EDUCATION

Master's Degree in Mechanical Engineering	2011
The National Technical University "Kharkiv Polytechnic Institute "Kharkiv, Ukraine	
Bachelor's Degree in Mechanical Engineering	2009
The National Technical University "Kharkiv Polytechnic Institute "Kharkiv, Ukraine	