

Vafā Sarmast

Structural Engineer
Software Developer and Tutor in Structure Modelling



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EDUCATION

- **Faculty of Engineering, University of Tehrān, Tehrān, IRĀN**
BSc in Civil Engineering, 1997

CAREER INTERESTS

- Modelling, Design, and Advanced Analysing of Buildings, Bridges, and Special Structures
- Consulting, Assisting, and Associating in Developing Building System, Structural Finite Element Analysis, Steel and Concrete Design, Seismic Design, and Seismic Rehabilitation
- Investigating and Inspecting Modelling and Design of Buildings and Structures
- Training Structural Software and Researching in Methods of Utilisation
- Design and Developing Professional Software in Structural and Civil Engineering
- Design and Developing Windows Applications
- Design and Developing Websites and Web Applications

CAREER SKILLS

- Modelling, Analysis, and Design Structures Using SAP2000, ETABS, SAFE, ROBOT, etc.
- Modelling and Design for Renovation and Seismic Rehabilitation of Buildings
- Training Advanced Methods of Structural Modelling, Analysis and Design, and Assisting in Utilisation Structural Software
- Design and Developing Structural Software and Applications for Drawing Automation
- Design and Developing Windows Applications, Websites, and Web Applications

CURRENT POSITION AND ACTIVITIES

- Programming and Developing ISEA™ / Caevandish®
- Structural Engineer and Designer / **Āigān Consulting Engineers**
- Assistant in Structure Modelling and Design / **Omrān, Binesh, Sāzé Consulting Engineers**
- Persian Editor and Layout Designer of Peer-Reviewed Journals:
 - *Women's Studies* / **Women's Research Centre, Al-Zahrā University**
 - *New Thoughts on Education* / **Faculty of Education and Psychology, Al-Zahrā University**
- Member of IT Committee / **Alumni Association of Faculty of Engineering, University of Tehrān**

EXPERIENCES AND CAREER HISTORY

- **Structural Engineer, 1996–**
 - Modelling, Design, and Seismic Rehabilitation of Structures and Building / **Āigān Consulting Engineers** / 2004–
/ **Omrān, Binesh, Sāzé Consulting Engineers** / 2002–
 - Tutor and Assistant in Modelling of Special Structures in Research Projects / 2001–
 - Designer of Structures and Assistant to Engineers in Modelling and Designing / 2000–
 - Road Designer, Software Administrator, and Drawing Workgroup Chief / **Ettehād Rāh Consulting Engineers** / 2003–2004
 - Designer of Bridges, Tunnels, and other Superstructures relative to Roads / **Barāyand Consulting Engineers** / 1996–1999
- **Tutor and Researcher in Structural Modelling, 1998–**
 - Tutor in Professional Training Courses in Modelling Structures / 1998–
 - **Current Courses:** ISEA™ 2008: SAP2000¹¹, ETABS⁹, SAFE⁸
 - **Old Courses:** SAP2000^{6–10} (2000–2006), ETABS^{7–8} (1998–2006), SAFE^{6–7} (2000–2004), SAP90⁵, ETABS⁵, STAAD-III^{19, 21, 22} (1998–2001)
 - Researches in Compatibility of Structural Software with National Codes and Construction Methods, Applied in Developing ISEA™ Supplementation for CSI / 2001–
 - Verifying CSI Products and Reporting Errors / 2001–
- **Programmer and Software Developer, 1996–**
 - Design and Developing ISEA™ / **Caevandish**[®] / 2001–
 - ISEA™ Section Builder
 - ISEA™ Foundation Interface
 - ISEA™ Sketching Essentials (SKEESS for Sketching)
 - Designer and Software Developer of Takhmin²⁰⁰⁵ / **Rāyān Sāzé** / 2003–2005
 - Co-programmer in DESIGN^{5,8} Project for Automation of Structural Drawings in AutoCAD / **Rāyān Sāzé** / 2000–2002
 - Designing Members Database / **Alumni Association of Faculty of Engineering, University of Tehrān** / 2001–
 - Developing Applications for Designing of Roads and Drawing Automation / **Āigān Consulting Engineers** / 2004–
/ **Ettehād Rāh Consulting Engineers** / 2003–2004
/ **Barāyand Consulting Engineers** / 1996–1999
- **Web Developer, 2001–**
 - Designing and Developing Various Websites and Weblogs / 2001–
 - Webmaster and Co-author of Several Websites and Weblogs about Persian Literature and Language, Culture, Editorial Services, and Technology / 2001–
 - Editor of **World:Persian:Art** Category / **Open Directory Project (dmoz.org)** / 2002–
 - Editor of Persian Language / **Wikipedia, the Free Encyclopedia** / 2002–
- **Persian Editor and Layout Designer, 1994–**
 - Researching into the Persian Orthography / 1994–
 - Developing Fonts and Keyboard Layouts for Persian Language and Orthography / 2004–
 - Persian Editor and Layout Designer of Peer-Reviewed Journals:
 - *Women's Studies* / Women's Research Centre, Al-Zahrā University / 2003–
 - *New Thoughts on Education* / Faculty of Education and Psychology, Al-Zahrā University / 2005–2007
 - *Psychological Studies* / Faculty of Education and Psychology, Al-Zahrā University / 2005–2006
 - Persian Editor and Layout Designer of Several Books, Dissertations, and Monographs / 2005–

1. Structural and Computer Aided Engineering (CAE)

- Computers and Structures, Inc. Software:
 - ETABS Version 9 (As well as Versions 7 and 8)
 - SAFE Version 8 (As well as Versions 6 and 7)
 - Section Builder Version 8
 - SAP2000 Version 11 (As well as Versions 6–10)
 - CSI Detailer Version 8
 - CSI Col Version 8
- STAAD-III and STAAD-Pro 2007
- ROBOT Version 20 (As well as versions 15–18)
- Autodesk AutoCAD Revit Structural Suite 2009
- Autodesk AutoCAD Civil 3D 2009
- Tekla Structures
- PROKON Structural Analysis

2. Computer Aided Design (CAD)

- Autodesk AutoCAD 2009 (As well as 10–14 and 2000–2008)
- Autodesk AutoCAD Architecture 2009
- ActiveX Automation using VBA in AutoCAD
- DXF file format generating for AutoCAD
- AutoLISP

3. Desktop Software Development

- Visual Basic 6 and Visual Basic .NET
- .NET Framework 1.0, 1.1, 2.0, 3.0, and 3.5
- VBA for AutoCAD R17 (As well as R14–R16)
- Windows API
- Microsoft Windows Installer and InstallShield
- Innovasys HelpStudio
- Sentinel, Eutron, Visual Protect, ASPProtect, and other Advanced Protection Software
- Microsoft Visual Studio 2008 (As well as 2003 and 2005)
- VBA for Microsoft Office 2007 (As well as 2000–2003)

4. Internet Development and Web Designing

- HTML, DHTML, XHTML, VBScript, JavaScript, and AJAX
- ASP and ASP.NET

5. Databases

- ADO and ADO.NET
- Microsoft SQL Server 2005 (As well as 2000)
- Seagate Crystal Reports



6. Microsoft Office 2007 (As well as 2000–2003) and Microsoft Expression 2007

- Microsoft Access
- Microsoft Word
- Microsoft PowerPoint
- Microsoft Project
- Microsoft Expression Web
- Microsoft Excel
- Microsoft Publisher
- Microsoft FrontPage
- Microsoft Visio

7. Graphics and Multimedia

- Adobe Acrobat Professional
- CorelDRAW Graphics Suite
- Microsoft VOLT
- Windows Media Player
- Multimedia Builder
- Ulead VideoStudio
- Adobe Photoshop
- Microsoft WEFT
- Windows Movie Maker
- Camtasia Studio
- SONY Vegas and Sound Forge
- Adobe InDesign
- Font Creator Program

DEVELOPED SOFTWARE

- ISEA™ Section Builder®  / © **Caevandish**® /
Program for Creating Section Files (*.Pro) for SAP2000 and ETABS
- ISEA™ Foundation Interface®  / © **Caevandish**® /
Program for Creating SAFE Input File from Analysis Outputs of SAP90, ETABS⁵, and SAP2000
- ISEA™ Sketching Essentials® (SKEESS® for Sketching) / © **Caevandish**® /
Program for Automation of Creating Structural Drawings in AutoCAD (Under Construction)

PUBLICATIONS


- *Sarmast, Vafā*. 2006. “C_t Factors for Approximate and Program Calculated Methods for Defining Automatic Seismic Static Load Cases Using UBC94 in ETABS and SAP2000 for ‘Iranian Code of Practice for Seismic Resistant Design of Buildings (Standard No. 2800-84 (2005), 3rd Edition)’.” User’s Manual, Electronic Version. Tehrān: Caevandish.
- *Sarmast, Vafā*. 2006. **Plans and Methods in Modelling Structures Using ETABS**. (In Persian). User’s Manual, Electronic Version. Tehrān: Caevandish.
- *Sarmast, Vafā*. 2005. “Defining Automatic Seismic Static Load Cases in ETABS and SAP2000 for ‘Iranian Code of Practice for Seismic Resistant Design of Buildings (Standard No. 2800-84 (2005), 3rd Edition)’.” User’s Manual, Electronic Version. Tehrān: Caevandish.
- *Sarmast, Vafā*. 2001. “Issues on modelling with STAAD-II.” (In Persian). *Sākht -o Sāz* 2(10):24–25.

NAMED COMPANIES

- **Caevandish**®, Software Developers and Structural Engineers


www.caevandish.com

- **Āigān**, Consulting Engineers


/ +98 (21) 8888 6225 / www.aigan.ir

- **Rāyān Sāzé**, Centre of Civil Engineering Software


/ +98 (21) 8827 8306 / www.rayansazeh.com

- **Omrān, Binesh, Sāzé**, Consulting Engineers

/ +98 (21) 8846 3539


- **Barāyand**, Consulting Engineers

/ +98 (21) 8841 4822

- **Ettehād Rāh**, Consulting Engineers

/ +98 (21) 8889 8378

- **CSI**, Computers and Structures, Inc.


www.csiberkeley.com