

Vafā Sarmast

*Structural Engineer,
Software Developer and IT Consultant,
Production Editor*



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EDUCATION

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

CURRENT POSITION AND ACTIVITIES

- Programming and Developing Software and Web / **Caevandish Vera**[®]
- Software and IT Consulting / **Caevandish Vera**[®]
- Head of Department of IT and Education / **Āigān Consulting Engineers**
- Structural Engineer and Designer / **Āigān Consulting Engineers**
- Assistant in Structure Modelling and Design / **Omrān, Binesh, Sāzé Consulting Engineers**
- Software and IT Consultant / Several Companies, Consulting Engineers, and Medical Laboratories
- Production Editor of **Women's Studies** / **Women's Research Centre, Al-Zahrā University**
- Member of IT Committee / **Alumni Association of Faculty of Engineering, University of Tehrān**

CAREER SKILLS

- Modelling, Analysing, and Design of Buildings, Bridges, and Special Structures
- Modelling, Analysing, and Design for Renovation and Seismic Rehabilitation of Buildings
- Consulting, Assisting, and Associating in Developing Building System, Structural Finite Element Analysis, Steel and Concrete Design, Seismic Design, and Seismic Rehabilitation
- Verifying and Scrutinising Structural Modelling and Design
- Training Advanced Methods of Structural Modelling, Analysis and Design, and Assisting in Using Structural Software
- Researching Methods of Utilising Structural Software
- Design and Developing Windows Applications, Professional Software in Structural and Civil Engineering, Applications for Drawing Automation, Websites, and Web Applications
- Masterfully Using and Developing Various Structural Software
- Masterfully Using and Developing CAD Programs
- Masterfully Using Windows and Web Developing Software, includes Databases and Reporting
- Masterfully Using Windows, Various Microsoft Software includes Microsoft Office, and Several Graphics and Multimedia Programs

- **Structural Engineer**, since 1996
 - Modelling, Design, and Seismic Rehabilitation of Structures and Building
 - / **Āigān Consulting Engineers** / 2004–
 - / **Omrān, Binesh, Sāzé Consulting Engineers** / 2002–
 - / **Khāk-Āb-Būm Consulting Engineers** / 2007–
 - 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 Drafting Supervisor
 - / **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**, since 1998
 - Tutor in Professional Training Courses in Modelling Structures / 1998–
 - Current Courses: ISEA™ 2008: SAP2000¹², ETABS⁹, SAFE¹²
 - Old Courses: SAP2000^{6–11} (2000–2008), ETABS^{7–8} (2001–2006), SAFE^{6–8} (2001–2008), SAP90⁵, ETABS⁵, STAAD-III^{19, 21, 22} (1998–2001)
 - Researching 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–
 - Head of Department of IT and Education / **Āigān Consulting Engineers** / 2008–
- **Programmer and Software Developer**, since 1996
 - Design and Developing ISEA™ / **Caevandish**[®] / 2001–
 - ISEA™ Section Builder
 - ISEA™ Foundation Interface
 - ISEA™ Sketching Essentials (SKEESS for Sketching)
 - Co-programmer in DESIGN^{5.8} Project for Automation of Structural Drawings in AutoCAD
 - / **Rāyān Sāzé** / 2000–2002
 - Developing Applications for Designing of Roads and Drawing Automation
 - / **Āigān Consulting Engineers** / 2004–
 - / **Ettehād Rāh Consulting Engineers** / 2003–2004
 - / **Barāyand Consulting Engineers** / 1996–1999
 - Designing Members Database
 - / **Alumni Association of Faculty of Engineering, University of Tehrān** / 2001–2006
- **Web Developer**, since 2001
 - Designing and Developing Various Websites / 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–
- **Production Editor, Persian Copy Editor, and Layout Designer**, since 1994
 - Researching into the Persian Orthography / 1994–
 - Developing Fonts and Keyboard Layouts for Persian Language and Orthography / 2004–
 - Production Editor, Persian Copy Editor, and Layout Designer of Peer-Reviewed Journals:
 - *Women's Studies* / **Women's Research Centre, Al-Zahrā University** / 2003–
 - *New Thoughts on Education* / **Department of Educational Sciences, Al-Zahrā University** / 2005–2008
 - *Psychological Studies* / **Department of Psychology, Al-Zahrā University** / 2005–2006
 - Production Editor, 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 12 (As well as Versions 6–8)
 - Perform 3D Version 4
 - SAP2000 Version 14 (As well as Versions 6–12)
 - CSi Detailer Version 8
 - CSi Col Version 8
- Autodesk Robot™ Structural Analysis Professional
- Autodesk AutoCAD Revit Structural Suite 2010
- Autodesk AutoCAD Civil 3D 2010
- RAM Connection 5
- Tekla Structures
- PROKON Structural Analysis

2. Computer Aided Design (CAD)

- Autodesk AutoCAD 2010 (As well as 10–14 and 2000–2009)
- Autodesk AutoCAD Architecture 2010
- Autodesk Impression 3
- ActiveX Automation using VBA in AutoCAD
- DXF file format generating for AutoCAD

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 R18 (As well as R14–R17)
- 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 2008 (As well as 2000 and 2005)
- 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. Fonts and Typography

- Microsoft VOLT
- FontLab Studio
- Microsoft WEFT
- Font Creator Program
- Microsoft Keyboard Layout Creator

8. Graphics and Multimedia

- Adobe Acrobat Professional
- CorelDRAW Graphics Suite
- Windows Media Player
- Multimedia Builder
- Adobe Photoshop
- Corel VideoStudio
- Windows Movie Maker
- Camtasia Studio
- Adobe InDesign
- SONY Vegas and Sound Forge

DEVELOPED SOFTWARE

-  ISEA™ Section Builder® / © 2001–2009 **Caevandish**® / Program for Creating Section Files (.pro) for SAP2000 and ETABS
-  ISEA™ Foundation Interface® / © 2001–2009 **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 Developing)

PUBLICATIONS

- Sarmast, Vafā*. 2006. “C₁ Factors for Approximate and Program Calculated Methods for Defining Automatic Seismic Static Load Cases Using UBC94 in ETABS and SAP2000 for Iran’s Codes of Practice.” User’s Manual, Electronic Version. Tehrān: Caevandish.
- Sarmast, Vafā*. 2005. “Defining Automatic Seismic Static Load Cases in ETABS and SAP2000 for Iran’s Codes of Practice.” User’s Manual, Electronic Version. Tehrān: Caevandish.
- Sarmast, Vafā*. 2001. “Issues on modelling with STAAD-III.” (In Persian). *Sākht -o Sāz* 2(10):24–25.

MENTIONED COMPANIES

- Caevandish Vera**®, IT and Software • Consulting and Development
Owned and operated since 2001



www.caevandish.com

- Āigān**, Consulting Engineers



/ +98 (21) 8860 0396–9 / 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

- Khāk-Āb-Būm**, Consulting Engineers

/ +98 (21) 8806 1360

- Barāyand**, Consulting Engineers

/ +98 (21) 2290 2610

- Ettehād Rāh**, Consulting Engineers

/ +98 (21) 8889 8378

- CSI**, Computers and Structures, Inc.



www.csiberkeley.com