software architect

Description

Code

2512.2

Description

Software architects create the technical design and the functional model of a software system, based on functional specifications. They also design the architecture of the system or different modules and components related to the business' or customer requirements, technical platform, computer language or development environment.
Scope note
Excludes people performing programming and coding activities.

Alternative Labels

application architect
software architects
software designer

Regulatory Aspect

To see if and how this occupation is regulated in EU Member States, EEA countries or Switzerland please consult the Regulated Professions Database of the Commission.
Regulated Professions Database:
http://ec.europa.eu/growth/single-market/services/free-movement-professionals/qualifications-recognition_en

Skills & Competences

Essential Skills and Competences

align software with system architectures analyse business requirements analyse software specifications build business relationships collect customer feedback on applications create flowchart diagram create software design define software architecture define technical requirements design process oversee development of software provide cost benefit analysis reports provide technical documentation

Essential Knowledge

business process modelling object-oriented modelling systems development life-cycle tools for software configuration management unified modelling language

Optional Skills and Competences

apply ICT systems theory design database scheme develop software prototype implement data warehousing techniques manage staff perform ICT troubleshooting perform resource planning perform risk analysis provide ICT consulting advice use markup languages utilise computer-aided software engineering tools

Optional Knowledge

ABAP AJAX APL ASP.NET Agile project management Ansible Apache Maven Assembly (computer programming) C# C++ COBOL CoffeeScript Common Lisp Erlang Groovy Haskell ICT project management methodologies ICT security legislation Java (computer programming) JavaScript Jenkins (tools for software configuration management) Lean project management Lisp MATLAB ML (computer programming) Microsoft Visual C++ Objective-C OpenEdge Advanced Business Language PHP Pascal (computer programming) Perl Process-based management Prolog (computer programming) Puppet (tools for software configuration management) Python (computer programming) R Ruby (computer programming) SAP R3 SAS language STAF Salt (tools for software configuration management) Scala Scratch (computer programming) Smalltalk (computer programming) Swift (computer programming) TypeScript VBScript Visual Studio .NET computer programming systems theory task algorithmisation web programming

Concept URI

Concept Uri

Status

released

Change log

From v1.0.8 to v1.1.0: