

embedded systems software developer

Professionals
Information and communications technology professionals
Software and applications developers and analysts
Applications programmers
ICT application developer
embedded systems software developer

Description

Code

2514.2.1

Description

Embedded systems software developers program, implement, document and maintain software to be run on an embedded system.

Scope note

Excludes people performing managerial activities.

Alternative Labels

embedded software developerl embedded systems engineer

embedded software programmer

embedded systems designer

embedded system software developer

embedded system software programmer

embedded systems software developers

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

analyse software specifications create flowchart diagram debug software develop ICT device driver develop software prototype interpret technical texts provide technical documentation use software design patterns use software libraries utilise computer-aided software engineering tools

Essential Knowledge

ICT debugging tools Internet of Things computer programming embedded systems integrated development environment software tools for software configuration management

Optional Skills and Competences

adapt to changes in technological development plans collect customer feedback on applications design user interface develop automated migration methods develop creative ideas integrate system components use automatic programming use concurrent programming use functional programming use logic programming use object-oriented programming

Optional Knowledge

ABAP AJAX APL ASP.NET Ansible Apache Maven Assembly (computer programming) C# C++ COBOL Common Lisp Eclipse (integrated development environment software) Groovy Haskell ICT security legislation Java (computer programming) JavaScript Jenkins (tools for software configuration management) KDevelop Lisp MATLAB ML (computer programming) Microsoft Visual C++ Objective-C OpenEdge Advanced Business Language PHP Pascal (computer programming) Perl 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) Swift (computer programming) TypeScript VBScript Visual Studio .NET World Wide Web Consortium standards Xcode object-oriented modelling software anomalies

Concept URI

Concept Uri

<http://data.europa.eu/esco/occupation/57af9090-55b4-4911-b2d0-86db01c00b02>

Status

released

Change log

From v1.0.8 to v1.1.0: