

## Anders Doms

**Year of birth:** 1956

**Expertise:** Long experience in testing and test management  
Test automation in most industries. Very broad development background

**Domain knowledge:** Bank, secure payment, telecoms, med-tech, automotive,  
process control and IT security



## Summary

Anders has a very long experience in testing and quality assurance.

Prior to that, he worked for many years as a software developer, and can thus take advantage of both worlds in his test work. Anders has worked in a variety of sectors including automotive, banking & finance, web, with tech, telecom and embedded systems.

Anders takes, with pleasure, roles like test manager, technical testers, test analysts, mentor or trainer. He fast gain insight into new problem areas, techniques, products and environments.

Test is for Anders a passion, and he is of course ISTQB certified in testing. He constantly strives to continue to be developed through courses, seminars and various forms of self-study.

As a person Anders is well organized and used to working in stressed projects. He is accustomed to shouldering most testing roles and is very independent and proactive in his approach. Furthermore, Anders is disciplined and methodical in his work, has an open personality and is always willing to share his knowledge and experiences with the colleagues.

In addition to the primary mission, Anders is engaged in the client's core business and colleagues' problems, improve processes and workflows.

### Competence

- Process work in testing and development
- Requirements production and requirements analysis
- System development and testing.
- Planning of testing
- Test management
- Development of test environments
- Test design
- Test execution
- System and modular design of software
- Electronics design (soldering schema)
- Hardware near software.

### Roles

- Requirements analyst (systems analyst)
- Requirements process developers
- Test planner
- Testing environment designer
- Tester / test analyst
- Trouble-shooter
- System planner
- Application developers
- Application developers, hardware close
- Course developer
- Interaction designer
- Educator

## Technology & Tools

### Methods:

PROPS, RUP (SEBUP), Scrum, Kanban.

### Programming Languages:

C, Java, C++, Objective C, PHP, PLS, Fortran, diverse assembler, Pascal. Web/Html/Javascript, Java, JSP, Erlang, Lisp, Matab, groovy, viss erfarenhet av shell-script, mm.

### Tools:

Agiletestware (soapUI och QC plugin), ClearCase, ClearQuest, CVS, DOORS, Eclipse, Emacs, Firebug (Firefox web-debugger), FrameMaker , Gcc, Git , HP Quality Center, IMS (stordator), iWork, MacProject, Matlab, MS Office (in all missions) PhotoShop, RequisitePro, Toad for IBM DB2, VirtuallPc, WMLware Fusion, XML Spy, VisualStudio, X Code

### Databases:

Microsoft SQL Server, Microsoft Access, Foxpro, MySQL, DB2

## Education & Certifications

### Education:

1981 MScEE, KTH, Stockholm

### Certifications:

2007 ISTQB Foundation

### Languages:

Swedish (native)  
English (fluent)  
German (conversation)

## Project Experience

**Role:** Test Analyst, Test environment designer

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**Customer/Proj:** Bankgirot/Apollo  
**Location:** Stockholm, Globen  
**Period:** 2012/06 - 2012/09

**Project description:**

Anders works in the Apollo project that provides direct payments between individuals with the by use of. Cell phones. The components will later offer the same opportunities through e.g. Web and is expected to be central to future service packages from Bankgirot.

Anders has built up an automated test environment from scratch, based on soapUI, JMS (MQ) and MySQL. The structure is largely based on the Groovy language. The test cases have been integrated into the older, semi-automated tests. As well as error handling, test cases have been handled in Quality Center. He has also written the user guide for the test environment.

**Tools and Methods:**

soapUI Pro, HP Quality Center, CVS, Toad for IBM DB2, Notepad++, Linux, mm.

**Areas of responsibility:**

- Planning, design, development and implementation

**Role:** Test Analyst, Test Automation

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**Customer/Proj:** SEB/One IT Roadmap  
**Location:** Stockholm, Rissne  
**Period:** 2011/06 -2012/05

**Project description:**

The project aims at the first stage to replace “Internetbanken Privat” with a SOA architecture. Anders participated as a Test Analyst in the project by developing test cases and test data for web services provided with SOA architecture and then perform tests in soupUI. Lack of GUI and new technology gave Anders a chance to put his knowledge and flexibility to the test. He also participated in updating the test strategy, train and develop regression tests. The test cases were first written and regression tested in soupUI but also synchronized over to Quality Center via a plugin, to report defects, statistics and general reports

**Tools and Methods:**

soapUI Pro, HP Quality Center, ClearCase, Notepad++, Linux, mm.

**Areas of responsibility:**

- Requirements Analysis
- Planning, analysing, designing and execution of test
- Regression testing

**Role:** Requirements Process Developer, Educator Requirements Management, Test Developer

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**Customer/Proj:** Scania/ CUV2 och BCI  
**Location:** Södertälje  
**Period:** 2010/08 - 2011/05

**Project description:**

Requirements in DOORS: Process and system specific training courses and tutorials. Test development for regression and functional testing of software requirements in bus and truck.

**Tools and Methods:**

DOORS, Matlab, Jira, limited Python-programming

**Areas of responsibility:**

- Development of requirements process
- Requirements Analysis

## Project Experience

- Teachers in DOORS (requirements tool)
- Requirements analysis
- Analysis, design and execution of tests including regression testing environment
- Reporting

**Role:** Test Planner in quotations (offer), Requirements Analyst

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**Customer/Proj:** Amlab/quotation for Westinghouse

**Location:** Jakobsberg

**Period:** 2010/05-2010-06

**Project description:**

Responsibility for testing and verification elements of procurement of control systems for fuel rods to Westinghouse.

**Tools and Methods:**

Office

**Areas of responsibility:**

- Design and cost estimates for the testing and verification of the system.

**Role:** Test Analyst, Test Leader

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**Customer/Proj:** Ericsson/Test integration, Base station application for LTE (4G)

**Location:** Stockholm, Kista

**Period:** 2009/09-2009-08

**Project description:**

Development of web solution for the integration of an LTE test platform. Verification responsibilities. Development of web solution with MySQL as database. REST-based code in HTML, Javascript and PHP. Interface to the requirements / analysis and test engine. Developed and implemented systems testing. Team leader during part of the time.

**Tools and Methods:**

RUP, Git, PHP, MySQL Linux, e.g.

**Areas of responsibility:**

- Analysis of requirements
- Design of the test platform
- Implementation and verification of the test platform
- Test Manager

**Role:** System developer, Test developer

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**Customer/Proj:** Amlab/Submarine audio radar

**Location:** Jakobsberg

**Period:** 2009/01 – 2009/08

**Project description:**

System design and development of systems for underwater measurements. Total solutions for data communication. DSP programming signal analysis. C development with gcc in Fedora Linux. Development of software for hardware tests. Real-time programming.

**Tools and Methods:**

GCC, Linux, mm

**Areas of responsibility:**

- System design of data communication module
- Conversion of signal processing software from Matlab to C and DSP
- Software development and testing

## Project Experience

- Testing of hardware

**Role:** Technical Specialist, Senior Test Developer, Teacher

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**Customer/Proj:** St. Jude Medical/Merlin at home

**Location:** Stockholm, Veddesta

**Period:** 2007/04 – 2008/02

**Project description:**

Test development and verification of system components for monitoring of pacemaker data from home. Technical specialist, senior test developer, trainer and sounding board.

**Tools and Methods:**

Built in Linux-platform, ClearCase, Scrum. Special test environment.

**Areas of responsibility:**

- Test Development
- Specialist Technology Platform

**Role:** Chief designer test tools, test developer

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**Customer/Proj:** St. Jude Medical/RF-Wand

**Location:** Stockholm, Veddesta

**Period:** 2006/01 -2007/03

**Project description:**

Responsible for requirements definition, test development and verification of internal tool for testing product new product. PTT was developed primarily to test the data communication protocol of St. Jude efficiently. Verification of communications equipment called RF Wand. RF Wand is used to establish communication with the pacemaker's. Responsibility included the all tests: developing test environment with scripts, documenting plans, specifications and reports and conduct tests. The work also involved the risk analysis. Included in the FDA application

**Tools and Methods:**

Mantis (defect report tool), Microsoft Source Safe (version handling tool), Microsoft Team Foundation Server (Tool to manage: defect tracking, version control and source code), Office.

**Areas of responsibility:**

- Requirements stand, system owners for test tools
- Requirements Analyst
- Test Developer (Automation))

**Role:** Support Engineer

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**Customer/Proj:** Technology Nexus/Misc. PKI products

**Location:** Stockholm

**Period:** 2005/03 -2005/12

**Project description:**

Customer 3<sup>rd</sup> line support Swedish and internationally for e.g. CM, *Personal* plus a number of other products. Troubleshoot and install at the customer. ClearQuest for error handling

**Tools and Methods:**

ClearQuest mm

**Areas of responsibility:**

- Responsible to Nordea for its certificate management on the internet
- Phone Support for Nexus Server and Client Solutions.

**Role:** Test Analyst, Test Automation

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## Project Experience

**Customer/Proj:** Svenska Handelsbanken/-  
**Location:** Stockholm  
**Period:** 2004/12 – 2005/02

**Project description:**

Verification of the *Personal* product. Delivery tests on Security Client Personal 4.x. Development of test specifications for testing of *Personal*. Tests of *Personal* to various combinations of Windows and browser, card readers, smart cards and soft tokens. ClearQuest for error handling

**Tools and Methods:**

Operating system, web browser, ClearQuest

**Areas of responsibility:**

- Test specifications
- Delivery tests

**Role:** Feasibility Studies, Security Client

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**Customer/Proj:** Svenska Handelsbanken/-  
**Location:** Stockholm  
**Period:** 2004/09 – 2004/11

**Project description:**

Feasibility studies for development of *Personal* on Macintosh OS X. Feasibility studies for the port of the Windows version of *Personal* to the Macintosh.

**Tools and Methods:**

Office

**Areas of responsibility:**

- Feasibility studies

**Role:** Developer, System Tester

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**Customer/Proj:** Svenska Handelsbanken and Technology Nexus/Misc. PKI projects  
**Location:** Stockholm  
**Period:** 2003/10 – 2004/08

**Project description:**

Development of demonstration software for PKI. Based on Nexus products Eg Nexus ID server. Reading e.g. smart cards.

Testing: Test development and testing of CM. Svenska Handelsbanken and Technology Nexus: bug fixes in *Personal* on Mac OS 8/9 and X. Liability for products' *Personal* for Macintosh ". Included commissioning at Handelsbanken, testing and correction. Environmental CodeWarrior and Xcode. Languages: C, C++ and Objective C. Technology Nexus: The development of the product CM for Volkswagen and the German authorities. Further development of the user interface of the CM.

**Tools and Methods:**

Java, C, C++, eclipse ClearQuest mm

**Areas of responsibility:**

- System developer
- Test developer

**Role:** Developer

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**Customer/Proj:** Vinnova/-  
**Location:** Stockholm  
**Period:** 2003/07 – 2003/09

## Project Experience

**Project description:**

Development of software for secure login using cell phones. Developed in Java.

**Tools and Methods:**

Java, Eclipse

**Areas of responsibility:**

- System development
- Module and Integration testing

**Role: Verification Tester**

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**Customer/Proj:** SmartTrust/-

**Location:** Stockholm

**Period:** 2003/05

**Project description:**

Verification Testing Program Module (DP Gateway). The tests were made in the Unix and PC environment with a test application.

**Tools and Methods:**

Unix, Tomcat

**Areas of responsibility:**

- Module Test

**Role: Preliminary study**

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**Customer/Proj:** Förenings sparbanken/-

**Location:** Stockholm

**Period:** 2002/11 – 2003/04

**Project description:**

Investigation of the conditions for the integration of Virtual PC and interface for "Smart Cards" solutions.

**Tools and Methods:**

Office, Windows API'er.

**Areas of responsibility:**

- Investigator

**Role: Course Developer / Teacher**

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**Customer/Proj:** Technology Nexus/Nexus Bank ID Server

**Location:** Stockholm

**Period:** 2003/03

**Project description:**

Development of the course for Nexus ID Server.

**Tools and Methods:**

Office

**Areas of responsibility:**

- Course Manager

**Role: Expert BankID, and more..**

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**Customer/Proj:** Technology Nexus

**Location:** Stockholm

## Project Experience

**Period:** 2002/11 – 2003/03

**Project description:**

Development of course for Nexus ID Server.

Technical Support. Expert help to Swedbank, quote jobs, product evaluations, customer development, technical sales support, etc.

**Tools and Methods:**

Office

**Areas of responsibility:**

- Course Manager
- Expert support BankID

**Role:** Acceptance Verifiers, Software Developer

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**Customer/Proj:** Bankernas ID-tjänst/-

**Location:** Stockholm

**Period:** 2002/05 – 2002/06

**Project description:**

Development of the course for Nexus ID Server. Acceptance tests of the Java applets that IBM developed. Functional Testing requirement for extensive test coverage on different Windows versions with different versions of browsers.

**Tools and Methods:**

All Microsoft Windows from Win98 to WinXP, 3-4 versions of Internet Explorer, multiple versions of Netscape

**Areas of responsibility:**

- Acceptance test developers
- Acceptance Tester

**Role:** Testutvecklare

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**Customer/Proj:** Trio/-

**Location:** Stockholm

**Period:** 2002/01 – 2002/04

**Project description:**

Development of the test cases for certification of forwarding system against Nortel's PBX

**Tools and Methods:**

Microsoft Office

**Areas of responsibility:**

- Test Deployment

**Role:** Product Liability for software, Software Developer

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**Customer/Proj:** Attendo/-

**Location:** Stockholm

**Period:** 2001/08 – 2001/12

**Project description:**

Development of a security care phone. Responsible for the software. Translated protocol specification from German to English. Development of link protocol for data over radio.

**Tools and Methods:**

UML, Visual Studio

**Areas of responsibility:**

- Software



## Project Experience

- Some documentation
- System

**Role:** System Tester, Functional Tester, Tester Characteristic, Educator, Inspector, etc.

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**Customer/Proj:** Ericsson/Wictoria

**Location:** Stockholm

**Period:** 1999/03 – 1999/06

**Project description:**

Test and Verification of 3G base stations. Integration, Functional and Characteristics testing. Lab documentation manager. Education Accountability. Technical expert: instrumentation and radio knowledge Configuration Management. Practical test work on the Solaris platform. The project applied incremental development. Full testing process based on the design specifications. Audits according to rulebook. Defect management under CCB control.

**Tools and Methods:**

Unix, ClearCase, Cello, Polyhedra, Emacs,

**Areas of responsibility:**

- Integration, function, characteristic testing.
- Technical expert
- Educator

**Role:** System tester, Software Developer

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**Customer/Proj:** Ericsson/Wera

**Location:** Stockholm

**Period:** 1998/03 – 1999/02

**Project description:**

Verification of 3G mobile systems. Troubleshooting in the entire system.  
Development of application part of radio base station. Extending test platform.

**Tools and Methods:**

Unix, ClearCase, Cello, Polyhedra (databas), Emacs,

**Areas of responsibility:**

- System development
- System Test

**Role:** Developer, hardware-oriented

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**Customer/Proj:** Ericsson/RBS2000

**Location:** Stockholm

**Period:** 1995/11 – 1998/02

**Project description:**

Further development of GSM base stations.  
Design/System design, coding and testing of communication software for the platform. Device driver development: DMA channels and interrupt handling for the communication part of the base station.  
Code-cover testing in real time environment. Troubleshooting hardware using logic analyser.

**Tools and Methods:**

Unix (Solaris), Exco, gcc, mm

**Areas of responsibility:**

- System development
- Programming
- Test

## Project Experience

**Role:** System Developer

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**Customer/Proj:** Ericsson/ES201

**Location:** Stockholm

**Period:** 1995/01 – 1995/08

**Project description:**

Design, implementation and test of the functions of the ES201, telephone service's directory system. Focused on billing management talks.

**Tools and Methods:**

Emacs, pascal assembler (68000)

**Areas of responsibility:**

- System development
- Programming
- Test

**Role:** System Developer

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**Customer/Proj:** MA-System/-

**Location:** Stockholm

**Period:** 1994/10 – 1994/12

**Project description:**

Implementation of Telnet Terminal emulation over radio

**Tools and Methods:**

Microsoft, C och Asm86

**Areas of responsibility:**

- System development
- Programming
- Test

**Role:** System developer

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**Customer/Proj:** Stockholm Stock Exchange/AviPax

**Location:** Stockholm

**Period:** 1994/08 – 1994/09

**Project description:**

Function Extensions Exchange's systems in PC environment

**Tools and Methods:**

Microsoft development tools, Emacs, mm

**Areas of responsibility:**

- System development
- Programming
- Test

**Role:** Trouble shooter, System Developer

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**Customer/Proj:** Ericsson/ABM, AXT, DX110

**Location:** Stockholm

**Period:** 1992/09 – 1994/06

## Project Experience

### Project description:

Troubleshooting and bug fixing of military branch exchanges. Three different families of PABXs

### Tools and Methods:

Eripascal, diverse assembler, pl163, exco

### Areas of responsibility:

- Troubleshooting
- System development
- Programming
- Test

**Role:** System Developer

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**Customer/Proj:** Posten/-

**Location:** Stockholm

**Period:** 1992/01 – 1992/07

### Project description:

Developing editor for the pages on Videotex. Windows 3.0-based

### Tools and Methods:

Microsoft development tools, Emacs, mm

### Areas of responsibility:

- System development
- Programming
- Test

**Role:** System Developer

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**Customer/Proj:** Ericsson/Diverse

**Location:** Stockholm/Linköping

**Period:** 1984-1991

### Project description:

Development of communications solutions for banking system and test environments for these. Implemented LAPB / HDLC protocol interface to the token ring. Developed test environment to verify Minute ATMs. Implemented simulator for banking transactions and SNA protocols

### Tools and Methods:

Microsoft development tools, Emacs, mm

### Areas of responsibility:

- System development
- Programming
- Test

**Role:** System developer, datacom /Stock and finance

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**Customer/Proj:** Stockholms fondbörs/diverse

**Location:** Stockholm

**Period:** 1984 – 1991

### Project description:

Development of PC-based workstation for the external stock market online.

Built eg the device drivers that did the communication between platforms. Implementation of network communication to the above.

Applied changes /redesigned into a trading system for the Stockholm Stock Exchange.

## Project Experience

### Tools and Methods:

C och Assembler, Microsoft

### Areas of responsibility:

- System development
- Programming
- Test

**Role:** Software Developer, test developers, test Strategist

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**Customer/Proj:** Televerket/diverse

**Location:** Stockholm

**Period:** 1984 – 1991

### Project description:

Investigated communication via PABX'es and how this could be tested. Developed a test framework: Processes and Document Templates.

Development of communication packages for Mobitex network, device driver on UNIX. Project managers and systems analysts, and created real time UNIX implementation. Development of software packages for the plug-in card to PC with HDLC protocol and real-time kernel. Project management, systems design and development

### Tools and Methods:

Office,  
C och Assembler, Microsoft, gcc,

### Areas of responsibility:

- System Designer, Software design, Researcher, etc.

**Role:** Systems Developer

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**Customer/Proj:** Teledatorer/AviMac

**Location:** Stockholm

**Period:** 1984 – 1991

### Project description:

Implementation of a terminal emulator for Videotex and TTY on the Macintosh. Support for different modem types and file transfer protocols included

### Tools and Methods:

MPW (C, Pascal & Assembler)

### Areas of responsibility:

- System development, design, coding, etc.

**Role:** System developer, hardware developer

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**Customer/Proj:** Philips Elektronikindustrier/PACT250

**Location:** Stockholm

**Period:** 1981-1984

### Project description:

Development of software for teleprinter

### Tools and Methods:

PLM86, Digital Equipment computers

### Areas of responsibility:

- Sub system designer
- Hardware: testing and development tools

## Other Education

ISTQB Foundation level (2012)

PractiQ© Foundation, PractiQ© Health check (2012)

Nexus internal IT security education, block 1 & 2. Integration with Microsofts products and network security. (2003, 2004)

Business Economics, High School, (1986)

First Certificate In English, Grade C. (1982)

And a variety of courses in processes, programming, project management, etc.