

Curriculum Vitae

Personal information

Name: **Christian Brunschen**
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Date of Birth: 1971-05-03
Nationality: Federal Republic of Germany

Employment

2006-06-04 – current

Google UK Ltd. (www.google.co.uk) (most recent first)

Google Beacon Platform – Architect, design, implement, test and monitor software in various aspects of [Google's Beacon Platform](#), including storage (migrating from one underlying storage system to another with zero downtime), service APIs (as used by first- and third parties to access the platform's services); automated testing applications (on Android) for Bluetooth Beacons (to verify adherence to specifications); Android applications to facilitate and manage large-scale beacon deployments, as well as data collection for performance measurement and analysis (including using [Project Tango](#) for spatial data and Augmented Reality).

Google Offers – Architected, designed implemented (end-to-end, storage-to-mobile client) an offer discovery and distribution system (part of an award-winning campaign); iOS and Android applications and libraries supporting Offers functionality in separate apps and integrated into others.

Mobile Applications Engineering – Design and implement mobile client software for some of Google's customer-focused services, for Android (Java) and iPhone/iOS (Objective-C / C++). Working closely with the development teams for those services to ensure cooperation between the client- and server-side software.

Advertising – Designed and implemented high-volume customer-facing and customer-supporting web- and server applications.

Internal Systems – Designed and implemented internal applications that serve various of Google's teams throughout the world.

Overall I've worked in a number of positions in teams of different sizes and shapes, from solo designer and implementer to working as a part of a team of dozens, in a sub-team of about ten, including design, architecture, implementation, testing, and deployment.

Google is an internationally renowned leader in internet searching, advertising, applications, and much more.

2001-05-01 – 2006-06-02

British Broadcasting Corporation – BBC News Interactive (news.bbc.co.uk)

Designed, developed, deployed and maintained high-volume Content Management and Publishing Systems (using WebObjects, XML, SOAP, server-side Java, Oracle, JMS), as well as various supporting tools including monitoring, statistics gathering and processing and system configuration (also WebObjects, Oracle and MS SQL Server). Designed, developed and deployed Web server modules and configuration for high-volume web servers (Apache modules, C and Perl).

The BBC is probably the most highly respected provider of news on the internet. While at BBC News Interactive I have worked with various aspects of the production and delivery of the news content that makes BBC News so successful. In the process I have worked on teams of varying sizes, as well as working solo.

2000-10-10 – 2001-03-27

AMS Management Systems UK (www.ams.com)

Designed and developed Web Applications using WebObjects (server-side Java, client-side Java & JavaScript). Trained and mentored other team members

While at AMS, I worked in a large team of developers and business analysts, analysing and clients' requirements as well as implementing them using Apple's WebObjects toolset using Java. In this role I also trained other team members in advanced aspects of WebObjects development, as well as mentoring new team members. This gave me valuable insights into working in a large team effort, where different parts of the team parts (business analysts, developers) work on different aspects, which nevertheless must work smoothly together.

1999-08-02 – 2000-09-29

P & L Systems International, Ltd., Amersham, UK (www.plsys.co.uk)

Designed and developed desktop applications for OPENSTEP and Mac OS X in Objective-C, web applications using WebObjects (server-side Java, client-side Java & JavaScript). Trained software developers (I am a certified Apple WebObjects trainer, *Programming WebObjects 1* and *Programming WebObjects 2*). Managed technical software development projects.

At P&L Systems, I started out developing applications for Apple's OpenStep and Mac OS X operating systems, as well as developing web applications using Apple's WebObjects tools in both Java and Objective-C. I also assumed training duties (and was certified to give Apple's official *Programming WebObjects 1* and *Programming WebObjects 2* courses), where I honed my verbal and presentation skills. I later went on to manage a small technical team of developers on larger-scale WebObjects projects, which also meant interacting with the client on both technical and management levels to gather requirements, assess technical feasibility and plan development schedules. This taught me much about working in a project from a higher-level point of view as well as further sharpening my skills at interacting with clients and management in general.

1997-1998*

Gravity Interactive Communication AB, Malmö, Sweden (www.gravity.se)

Designed and developed software & web sites (examples: web-accessible timetable & ticket ordering system, People & Location scheduling & tracking system). Administered client and server computer systems.

1995-1996*

MacMeckarna AB, Malmö, Sweden (www.mm.se)

Designed and developed software & web sites (example: Teletext-to-www translator, www.svt.se/texttv/). Administered client and server computer systems.

Summer 1994*

Axis Communications AB, Lund, Sweden (www.axis.com)

Designed and developed an automated testing system for development hardware (network print servers).

1992-06-01 – 1992-09-14

AB Tetra Pak, Lund, Sweden (www.tetrapak.com)

Continuation of previous year's work (see below).

1991-06-10 – 1991-08-18*

Tetra Pak Research & Development AB, Lund, Sweden (www.tetrapak.com)

Developed software to allow device access using TCP/IP, Generated reports using embedded SQL for a plant automation project.

Fall 1990

NoGyS AB, Lund, Sweden

Developed map digitizing software and printer drivers for GIS system

*All work for MacMeckarna AB and Gravity Interactive Communication AB, as well as additional work in conjunction with my employment at Tetra Pak Research & Development and Axis Communications, was performed as an employee of 'AB MXM – Third Millennium Technologies', a company started in 1991 by a group of friends (including myself), in which I am a part owner.

Education

Higher Education

September 1999

Presented my M.Sc. Thesis, 'OdinMP/CCp – a Portable Compiler for C with OpenMP to C with POSIX Threads', first at Lund Institute of Technology and then at the 1999 European Workshop on OpenMP (EWOMP'99, <http://www.it.lth.se/ewomp99/>); available at <http://www.brunschon.com/christian/OdinMP/>

Fall 1989 - 1999, with interruptions

Datateknik, Datatekniksektionen vid Lunds Tekniska Högskola, Lund, Sweden

Master of Science programme at the Department of Computer Science and Technology at Lund Institute of Technology, Lund, Sweden

Complete list of courses and results attached

Primary & Secondary schools

Fall 1986 - Spring 1989

Polhemskolan, Lund Sweden

Spring 1984 - Spring 1986

Tunaskolan, Lund, Sweden

Fall 1983

Georg-Büchner-Gymnasium, Berlin, Germany

Fall 1977 - Spring 1983:

Käthe-Kollwitz-Grundschule, Berlin, Germany

Skills

Programming and Computer-related skills

Programming languages, primary:

Java, C, C++, Objective-C, Python, PostScript

Programming languages, secondary:

Perl, Pascal, Simula, Miranda, Logo, Lisp, Prolog

Computer systems, primary:

Mac OS X, Linux, Microsoft Windows, Solaris and assorted other Unices

Language skills

Fluent (spoken, read/written):
Swedish, German, English

Semi-fluent:
Danish, Norwegian

Basics:
French

Other Work-related skills

Training:
Certified Trainer for Apple's 'Programming WebObjects I' and 'Programming WebObjects II' courses

Technical Project Management:
Managing small team of programmers (5 people including myself), liaising with company management, subcontractors and clients

Miscellaneous skills and interests

Typing:
Rather fast, and pretty accurate – a side effect of typing a lot while programming etc.

Sports:
Gliding. I gained my Glider Pilot's License in fall 2003.

Music:
Playing the piano and related keyboard instruments
Singing (choir)
Composing and Recording (Sample available on request)

Literature:
Science-Fiction and Fantasy, reading and writing

Open Source Projects

MorphPlot

<https://github.com/cbrunschen/MorphPlot>

Plots arbitrary images on pen plotters, using binary morphology. Also calculates discrete voronoi diagram for stippling greyscale images, uses 2-opt to create a Hamiltonian path.

SMILemu

<http://smilemu.org/>, <https://github.com/cbrunschen/SMILemu>

An emulator for an early (1950s) Swedish computer, [Siffer-Maskinen I Lund](#) aka SMIL.

Miscellaneous Accomplishments

October 2000

The article about my Master Thesis was published:
C. Brunschen and M. Brorsson, OdinMP/CCp – a portable implementation of OpenMP for C, Concurrency: Practice and Experience. 2000; 12: 1193-1203. ISSN 1040-3108.

September 1999:

Presented my Master Thesis at the first European Workshop on OpenMP, (see also the article published in October 2000, above)

October 1996:

Co-author of PNG specification (www.w3.org/TR/REC-png-multi.html)

1992-1995:

Member of the board of the Computer Society at Lund University and Lund Institute of Technology (www.dflund.se), in various capacities:

- 1992-12-02 – 1993-05-05: Member of the board
- 1993-05-05 – 1994-05-07: Secretary of the board
- 1994-05-07 – 1995-10-31: System Manager

References

Available on request.

Ladok printout (courses passes with their respective grades)

Christian Brunschen, 710503-4271

Courses in Computer Science and Engineering, 180 p (TDATA)

| Code | Name | Points | Grade | Date |
|-------------|---|---------------|--------------|-------------|
| EDA010 | Computer Programming 1 | 5.0 | 5 | 1990-05-30 |
| EDA020 | Computer Programming 2 | 4.0 | 5 | 1990-10-24 |
| EDA030 | Object Oriented Programming | 4.0 | 5 | 1991-06-16 |
| EDA040 | Concurrent Programming | 4.0 | 4 | 1993-12-18 |
| EDA050 | Operating Systems | 3.0 | 5 | 1994-05-30 |
| EDA100 | Introduction to Computer Science | 3.0 | 5 | 1990-05-28 |
| EDA120 | Functional Programming | 4.0 | 4 | 1996-12-06 |
| EDA200 | Compilers and Interpreters | 4.0 | 5 | 1994-06-22 |
| EDA300 | Computers in Society | 2.0 | G | 1990-12-21 |
| EDA320 | Program Design Project | 3.0 | G | 1991-09-13 |
| EDA331 | Programming in Industry | 3.0 | G | 1996-03-08 |
| EDA401 | Numerical Analysis | 4.0 | 4 | 1995-10-17 |
| EDI010 | Switching Theory and Digital Design | 6.0 | 3 | 1993-08-23 |
| EDI021 | Digital Systems, Project Laboratory | 5.0 | G | 1996-03-08 |
| EDT010 | Introduction to Computers | 2.0 | 5 | 1990-03-08 |
| EDT021 | Computer Architecture | 4.0 | 3 | 1993-10-19 |
| EDT041 | Introduction to Structured VLSI Design | 4.0 | G | 1994-10-22 |
| EDT100 | Parallel Computer Architecture | 2.0 | 5 | 1995-03-06 |
| EEM010 | Electrical Measurements and Instrumentation | 6.0 | 3 | 1994-12-14 |
| ETE030 | Elementary Circuit Theory | 4.0 | 3 | 1993-03-16 |
| ETI090 | Electronics, Basic Course | 5.0 | 4 | 1993-12-16 |
| ETS020 | Communication Systems | 4.0 | 4 | 1995-05-27 |
| ETS031 | Software Development for Large Systems | 4.0 | 5 | 1994-10-20 |
| ETS051 | Computer Communications | 4.0 | 4 | 1994-12-19 |
| ETT020 | Telecomm Theory, Discrete Time Circuits and Signals | 4.0 | 4 | 1994-03-07 |
| ETT030 | Digital Transmission Systems | 4.0 | 3 | 1994-06-02 |
| FAF100 | Physics | 10.0 | 4 | 1990-06-20 |
| FFF080 | Semiconductor Physics | 3.0 | 5 | 1994-12-16 |
| TNX160 | History of Technology | 3.0 | 3 | 1995-12-06 |
| ETS060 | Discrete Event Simulation | 4.0 | | |
| 0193 | Laboration 1 (*) | 0.0 | G | 1996-05-03 |
| FMA010 | Mathematics, Extended Course | 26.0 | | |
| 0189 | Calculus 1, Variable, Part 1 | 4.0 | G | 1989-10-23 |
| 0289 | Calculus 1, Variable, Part 2 | 4.0 | G | 1995-12-09 |
| 0389 | Calculus 1, Several Variables | 4.0 | G | 1993-03-17 |
| 0489 | Linear Algebra | 3.0 | G | 1989-12-16 |
| 0689 | Linear Systems | 6.0 | G | 1990-12-21 |
| | | Total: | 138.0 | points |

Other courses

| Code | Name | Points | Grade | Date |
|-------------|-----------------|---------------|--------------|-------------|
| TNE050 | Internet Inside | 3.0 | G | 1998-06-12 |
| | | Total: | 3.0 | points |
