

Martin Flodin

Web Developer · Stockholm, Sweden



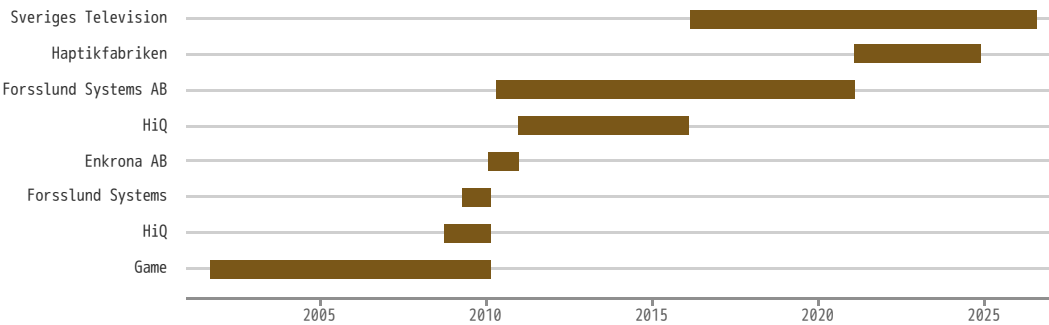
mflodin@gmail.com mflodin.se github.com/mflodin +46739972744 Born 1981-09-18

I am a social, creative, and eager to learn person who likes to be at the forefront of new technology. I try to learn something new every day, and like to try out the latest and greatest new web technologies and frameworks. I am passionate about usability and accessibility and I always have the user's need as my focus.

On my spare time I play guitar in three different bands and I am currently trying to learn the banjo. I also enjoy sailing, VR, and watching a lot of science videos on Youtube.

EXPERIENCE

The roles overlap – several tracks have run in parallel across the years.



2016–now

Sveriges Television

Web Developer

Mar 2016 – now

I've mainly worked on the SVT Nyheter site (svt.se/nyheter) and SVT Valkompass (valkompass.svt.se). I've also worked with the team at SVT Verifierar

2021–2024

Haptikfabriken

Co-Founder

Feb 2021 – Dec 2024

Co-founder of Haptikfabriken - The Swedish Haptics Factory. We designed, produced, and distributed high-quality 3D haptic devices.

2010–2021

Forsslund Systems AB

Partner

May 2010 – Feb 2021

Forsslund Systems was a start-up aimed at developing medical simulators with haptic feedback. We built an oral surgery simulator for use in dental education.

After my time as an employee I remained on the board and as a shareholder, and did some work on the projects in my spare time.

Kobra Surgery Simulator–A Possibility to Improve Digital Teaching? A Case-Control Study

HiQ

Consultant

Jan 2011 – Feb 2016

At HiQ I did consultant work at various places. My main expertise was in web development.

I started out doing mostly back end development, but moved to primarily front end the last few years. Apart from my assignments I also acted as an instructor for our internal education in courses such as Responsive development, and Building Web Applications with JavaScript, and as the lead for the internal front end guild. I was also one of the people in charge of arranging the annual HiQ Music Festival where around ten different bands (all from HiQ) performed.

ASSIGNMENTS

Ica Aug 2015 – Feb 2016

Front end developer

At ICA I was part of a team developing the main site for the Ica stores (ica.se). The site was built on EPiServer with jQuery sprinkled on top, but was moving towards a more front end heavy solution. I focused mostly on front end, but also did some back end development during back end heavy sprints. One example assignment was adding the opening hours for each store to the site.

C# · ASP.NET · EPiServer · JavaScript · jQuery · CSS · Gulp

Giesecke & Devrient Apr 2015 – Jul 2015

Front end developer

I implemented a theme for the Java web framework Vaadin used by the company. The theme consisted mainly of css/sass, but also included layout templates in html and was based on a previously developed style guide. The assignment entailed considerable freedom and responsibility as it was very independent. I also simplified and sped up the development process through automation by introducing Grunt. Furthermore, I developed an extension for Chrome to help the application developers track down layout issues. During the second half of the assignment I also mentored an intern that started then.

SASS · CSS · HTML · JavaScript · Grunt · Maven · Vaadin · Java

Scania Sept 2013 – Mar 2015

Frontend Developer · Lead Developer

I was part of a large team that developed a sales portal for Scania's resellers. The assignment was supposed to be short term during a parental leave, but I was so appreciated that the assignment was extended multiple times. I worked with the frontend team, building a single page web application with the JavaScript framework Dojo. I quickly became an important part of planning and defining new functionality. I set up front end unit testing for the project in Mocha and Chai. I also set up a local development and build environment with Grunt that sped up the development process, and wrote Python and node.js scripts to automate recurring manual steps of the process. As the team grew, I took the role as Lead developer in charge of code reviews and frontend development guidelines and best practices.

JavaScript · Dojo · HTML · CSS · REST · node.js · Python · Grunt · Mocha · Chai · Git

Maquet Critical Care Feb 2011 – Aug 2013

Developer · Maintenance · Designer · Systems architect

I designed, planned, and co developed numerous internal and external web applications for various departments. I took the lead on several projects and adopted a user centered process with continuous user feedback. I was also in charge of deployments and maintenance of various projects. In one of the projects I redesigned the job application site as a responsive web application.

C# · ASP.NET · JavaScript · CSS · Windows Server · SQL Server

2010-2011

Enkrona AB

Web developer / CTO

Feb 2010 - Jan 2011

Developer · Lead developer · Maintenance · Designer · CTO

enkrona.se was an auction site aimed at making purchases fun. I did most of my work on the back end, supplying the administrators with tools to manage the main site. In 2010 I also became CTO in charge of the technical development.

Enkrona was an online auction site where I was responsible for daily operations and development of the site and the back office site. I also co developed a customized warehouse management system and integrated it with a TA system for communication with logistics companies. During the last four months I took over as lead developer when the previous lead left the company.

C# · ASP.NET · JavaScript · CSS · Windows Server · SQL Server

2009-2010

Forsslund Systems

CTO

May 2009 - Mar 2010

I was in charge of developing an oral surgery simulator for training dental students. Forsslund Systems was a start-up aimed at developing medical simulators with haptic feedback. Our first simulator was an open source project hosted at launchpad.net/forssim.

After finishing my thesis at Forsslund Systems in collaboration with HiQ, I started working there. Forsslund Systems was a small startup focusing on haptic feedback simulations, but we also did some other assignments to finance the main goals.

The main project was developing a simulator for wisdom tooth surgery for use in the training of dentists. The project uses advanced 3D graphics, OpenGL and volume rendering and haptics, force feedback, in the form of a robotic arm aka haptic device. During the prototyping stage the simulator was used at the Karolinska Institute in a research project to see how simulators could help students learn better. We later built four simulators for Riga Stradins University. As a part of the development of the final product I built a web interface for the main GUI of the simulator, which we then displayed on a tablet attached to the simulator. This allowed us to separate the main simulation application development from the user interface work.

I also led and participated in the development of a speaker administration system for Grön Ungdom for use during their national annual meeting. The development was user centered with a lot of contact and ongoing evaluation with the customer. The application was built with Java and was later adapted for Djurens Rätt as well.

Linux · C++ · JavaScript · Qt · Bazaar · Scrum · OpenGL · OpenHaptics · H3D · MySQL

2008-2010

HiQ

Master's Thesis

Oct 2008 - Mar 2010

I did my Master's thesis at Forsslund Systems in collaboration with HiQ.

2001-2010

Game

Salesman

Oct 2001 - Mar 2010

I worked part time as a salesman at GAME in Stockholm. Most of the time I worked in the store in Solna, but from time to time I worked at some of the chain's other stores in Stockholm. As well as at the Swedish head office during one summer where I created the weekly bulletin for the stores, and helped with the launch of the company's bonus card system.

EDUCATION

2000-2015

Royal Institute of Technology

Master of Science in Media Technology

Aug 2000 - Jul 2015

The time span is a bit misleading. I did enroll in 2000 and finally got my degree in 2015, but my main education took place between 2003 and 2009 roughly. Before that I attended the Computer Science programme for a year and a half before taking a break from school and work instead. During the break I still took some evening classes, but I worked almost full time for a while. In 2003 I started anew with the Media Technology programme. In 2009 I did my Master's thesis and then got a job which stole my focus and meant it took me until 2015 to finally complete the few remaining assignments and get the degree.

PUBLIC SPEAKING

2024

Async

Nov 2024

I attended the local JS meetup in Brighton while in town for the ffconf frontend conference. I held a presentation about a visual phenomena I found interesting. It turns out our vision is also partly based on movement, just as the t-rex's vision is claimed to be in Jurassic Park

2024 International Show 'n' Tell <https://www.meetup.com/async-web-tech-meetup/events/304061584/>

Demo (click to start/stop the text) <https://t-rex.mflodin.se/>

2017

Stockholm ReactJS Meetup

Oct 2017

I helped organize the event, as well as acting as the MC and presenting the speakers.

ReactJS Meetup #5 at SVT <https://www.meetup.com/stockholm-reactjs-meetup/events/243738373/>

2015

sthlm.js

Sept 2015

I helped organize the event and held a presentation showcasing awe.js, a JavaScript framework for building augmented reality (AR) web applications.

sthlm.js meetup #28 at HiQ <https://www.meetup.com/sthlm-js/events/225174904/>

PROJECTS

Odd1Out

In my spare time I play guitar in a few bands, one of them being Odd1Out. And as I am a web developer by profession I built the band's website based on the singer Rickard Linder's design.

Odd1Out <https://odd1out.band/>

The Dark Side of Web Audio

I created a visualization based on Pink Floyd's iconic album cover for Dark Side of the Moon using Web Audio and WebRTC. Unfortunately I also was trying out setting up a workflow with Grunt to minify my JavaScript, so the code is a bit obfuscated. It was based on an earlier project which used a Pink Floyd track from SoundCloud as the audio source, but they took the track down, and I don't seem to have updated it since then.

Demo <https://darkside.mflodin.se> Source <https://github.com/mflodin/devart>

■ Password generator

After reading the XKCD comic Password Strength I started using <https://correcthorsebattery Staple.net/> to generate my passwords. But one day it was down, and I thought it might be gone forever, so I decided to build my own bare bones version.

Demo <https://pw.mflodin.se> Source <https://github.com/mflodin/pw>

■ Vecka

I really like vecka.nu, but I wanted to have even easier access to seeing what week it is, so I created my own version where the week number was also shown in the favicon. Something vecka.nu didn't do at the time. This let me have a pinned tab that always showed me what week it was. Later vecka.nu also got this functionality, and I want to believe that I had something to do with that, but that is probably just wishful thinking.

Demo <https://vecka.mflodin.se> Source <https://github.com/mflodin/vecka>