Personal Development Document (Template)

Thomas Schenk

# Persona

My name is Thomas Schenk and I am 21 years old. Originally, I am not from Brabant, but from Hilversum. Luckily, I moved a bit down to Utrecht; so the commute is (somewhat) doable!

Aside from my interest in Technology and software, often times I am found in the garage working on vintage motorcycles and cars. You could say that my life is split between a very high-tech field of work and a very low-tech field of work! This has given me the opportunity to think differently about high-tech problems, often with a very nice solution as an outcome.   
Besides that, I think old technology is just super cool!

When I’m not found working, I like to relax by playing some guitar or to research something affiliated with previously mentioned topics.

Personality Type:  
Diagram

Description automatically generated with medium confidence

# Context

For this semester, I would like to work on more mechanical aspects of the ICT world. I feel like software and technology are the most recognizable, the most pronounced when they have a mechanical function. Furthermore, the design and different principles which come into play when designing mechanical functionality opens up a whole range of new research and field of works; all which interest me.

Furthermore, visualization of data is also an interest I would like to explore. Especially random, generated data. And making a prediction based on this. I think it can create a very simple overview of something very complex to outsiders of the project. And thus is an excellent way of quickly describing and demo-ing your project.

# Project

## Top 3 projects

Top three (Native numeration of projects is used):

2. Autonomous Guided Vehicle Platform

I am very interested in this project since it utilizes a very basic form of data visualization; which is movement. Robots traversing on a set path, with random obstacles creates a challenging situation where some parameters are constant, but the majority is always changing. How to bring order to this chaos?

4. Autonomous exploration of building

Above points can all be inserted in this project too.

Furthermore, it is very interesting since the performance of this project can be directly mapped to known values and metrics. A room with a set size can only be its set size; it doesn’t change. Gathering feedback on the efficiency of this robot is therefore so easy and tangible; that it is very exiting to make it as efficient as possible.

6. Dynamic Sound Level Control in Learning Environments

The most interesting part about this assignment is the suspense of how the frontend of this project (website etc) is going to connect to the actual technology. This was also the main drive for this final choice in my top 3.

## Assigned research project: Autonomous exploration of a building

Ultimately I have been assigned to project #4; Autonomous exploration of a building. This project is led by the ministry of defense, alongside other similar companies and groups.

The project aims to create a robot which operators can use to scan/explore buildings when their layout is unknown. This robot can be used when entering the building in person is dangerous, or difficult. Some examples are a hostage situation or firemen wanting to reach a certain location in a burning building.

The project isn’t new, two groups have previously done some work on it. We (the group) are the third group working with this robot.

## Personal project

My personal project focusses on vehicles and monitoring their data. For example oil temperature or RPM. With this data, we can make predictions about engine life or engine wear, then informing the user on this is a main priority. This solves the fact that many people do not really look after their vehicles when it comes to maintenance, mainly because they do not know how. By lowering that difficulty, vehicles can be driven for far longer.

# Learning outcome table with proof

## Products with their description

**Camera installation**

While a groupmate had done research on new camera equipment, I made sure that this new camera was working with our ecosystem. This means that it can both run on Linux and ROS. Furthermore this camera installation also includes figuring out how to rewrite the current software as to include this new piece of software.

**Personal project**

Ofcourse the personal project will always be a part of this document, currently I am in the researching phase of some additions. These will follow and finalize next sprint, since I just did not have enough time to finish it completely to put it into this sprint.

## Learning outcome table

|  |  |  |
| --- | --- | --- |
| **Learning outcome** | **Proof** | **Rating** |
| **1. Analysis** You specify a distributed computer system including timing, resource use and performance, taking into account safety aspects. And you compile an acceptance test plan and an integration test plan. | Camera Installation: | Current: U  Self: Orienting |
| **2. Advise** Based on your analysis, you provide technical advisory on the (distributed) computer system that is to be realised, including hardware and software components and links. |  | Current: U  Self: U |
| **3. Design** You design a distributed computer system including determining actuators, sensors, timing, resource usage and performance. |  | Current: U  Self: U |
| **4. Realisation** You realise a complete computer system (or parts thereof) including network, hardware and system software based on your own design. And you compile and carry out an acceptance procedure to validate the implementation. |  | Current: U  Self: U |
| **5. Manage & Control** You set up and make use of a system for version management, release management, teamwork support and automated testing for hard- and software systems. |  | Current: U  Self: U |
| **6. Future-oriented organisation** You explore the organisational context of ICT assignments, make business, sustainable and ethical considerations and manage all aspects of the execution of the assignment. |  | Current: U  Self: U |
| **7. Investigative problem solving** You critically consider IT assignments from different perspectives, identify problems, find an effective approach and come up with appropriate solutions. | Personal project | Current: U  Self: O |
| **8. Personal Leadership** You are entrepreneurial with regard to ICT assignments and personal development, pay attention to your own learning ability and you keep in mind what kind of ICT professional and/or what type of positions you aspire to. |  | Current: U  Self: U |
| **9. Targeted Interaction** You determine which partners play a role in the ICT assignment, collaborate constructively with them and communicate appropriately to achieve the desired impact. |  | Current: U  Self: U |

# Sprint retrospective and personal reflection

**Sprint 1**

This sprint brought with it a lot of good work, both qualitative and quantitative; it was missing a bit of documentation though. I feel like I did a lot of good work, but I missed the point to document it properly. Both because Im not that good at it; and the severely different way of work this semester. It really does not play into how I usually work/go about documentation well.

I aim to improve this the next sprint.

**Sprint 2**

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**Sprint 3**

…

**Sprint 4**

…

**Sprint 5**

…

# Evaluation and reflection on the whole semester

For ‘wrapping up’ the semester. Add an evaluation and a reflection of your whole semester. Your evaluation describes what went good and bad during your process and how you dealt with that. Your reflection describes how you have grown as a person, and what you will take with you in your further professional career (e.g towards the graduation internship).

# Feedpulse

Sprint 1 Feedpulse:

Graphical user interface, text, application, chat or text message

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated