CURRICULUM VITAE

PERSONAL DETAILS

Name   Santtu Nyman

Nationality   Finnish

GitHub   https://github.com/Santtu-Nyman

SKILLS AND INTERESTS

I have good understanding of both C and C++, which i have programmed as a hobby for years before I started my engineering studies. I have basic understanding VHDL. I have programmed for multiple embedded systems while studying at OAMK (Raspberry Pi 3 Model B, Arduino Uno, Blue Pill STM32F103 board and Nucleo-F303RE) and in summer of 2018 I wrote with a pair programmer ASK transmitter and receiver driver for Arm's Mbed OS in C++. These ASK drivers are available in my GitHub at repository mbed-os-ask. I am familiar with native Windows programming using Microsoft's Win32 API and I have studied native Linux programming. I have written networking code using Windows socket library 2 which is similar to POSIX sockets and AT commands controlling GPRS module for a my HTTP client implementation, multithreaded code for Windows, Linux and Mbed OS, simple graphical UI code using Windows native APIs, FreeType, stb truetype and SDL 2 and vectorized code using different versions of x86 streaming SIMD extensions and Arm Neon in both C and C++ with intrinsic instructions. Summer of 2019 I wrote a graph drawing program for making graph from large text data in C. This program is available in my GitHub at repository gdt. I have used few interpreted scripting languages (PHP, Python and Linux shell scripts) in my school projects, but I am mostly interested in low level software and electronics. In my studies at OAMK working on projects I have focused mostly in the hardware side of the projects.

EDUCATION

2017 -   Oulu University of Applied Sciences

                        -Device and Product Design

2012 - 2015   Oulu Vocational College Kaukovainio unit, Technology

                        -House building

LANGUAGES

Finnish   Native language

English   Good