



MINUTE OF MEETING DAY

THIRD PROJECT MEETING IN TRONDHEIM

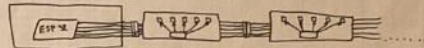
EUROPEAN CNC-NETWORK -

PENNY PRESS MACHINE FOR EUROPE

Meeting Description	Third Project Meeting in Trondheim (Norway)
Meeting hosted by	Byåsen Videregående Skole
Minute written by	[IT] Cristian Alasotto

Date / Place / Time	Activities / Results / Points of importance
<p>HARD WORKING & LOOKING FORWARD DAY Saturday 20th November 2021</p> <p>08:00 Breakfast</p> <p>09:00 Public Transport to School 09:30 Good Morning Flashlight</p> <p>10:00 Work Line A-"Interaction" (Group Work)</p>	<p>Work Line A-"Interaction" (Group Work)</p> <p>Touch Panel Homework meeting in IT 02/2022 Research the I2C protocol. Research Raspberry pi specification. Which specification do you need for the Raspberry Pi to make your application work?</p> <p>Wireless Link Using web servers on each locomotive we can connect all the wagons to a web page on the main server. Homework end of November 2021 Take a photo of each wagon that you have at school and decide on how to animate those wagon upper parts other than just y sound and light Concerning sound animation: Define the length and the quality of sounds and songs to the selected wagons</p> <p>Animation Create a web interface with virtual reality Homework at the end of November 2021 Take a photo of each wagon that you have at school and decide on how to animate those wagon upper parts other than just y sound and light Concerning sound animation: Define the length and the quality of sounds and songs to the selected wagons.</p> <p>Power Supply A main battery on the locomotive for all the wagons Homework at the end of November 2021</p>

Date / Place / Time	Activities / Results / Points of importance
<p>11:00 Work Line A-Discussion (Plenum)</p> <p>12:00 Public Transport to Sverresborg Folk Museum</p> <p>12:30 Visit to Sverresborg Folk Museum (incl. Lunch)</p> <p>13:45 Public Transport to School</p> <p>14:30 Work Line B-"Networking" (Group Work)</p> <p>15:30 Work Line B- Discussion (Plenum)</p> <p>16:30 Review, Evaluation & Homework (Plenum)</p> <p>18:00 Free Time</p> <p>20:00 Farewell Dinner at "Egon Tâmet Restaurant"</p>	<p>Choose the type of battery and type of needed connectors and complimentary control / management circuit for power supply.</p> <p>Control Unit Homework as soon as possible Research the i2c protocol Count how many wagons each country has so we can know how many chips we have to use</p> <p>Work Line B- Networking (Plenum)</p> <p>Webcam Homework meeting in IT 02/2022 Upload pictures of each display showcase in each school to Microsoft Teams Find an available pc being used for the showcase Finding the perfect webcam with all the needed specification (—> for the Webcam group members only)</p> <p>Signal Coding Homework meeting in IT 02/2022 Learn how to link a microcontroller to a website</p> <p>Wireless link Homework meeting in IT 02/2022 Find out how to make the ,local web server accessible for external data</p> <p>Web interface Homework meeting in IT 02/2022 Learn how to program the website by getting to know the necessary languages: HTML, CSS, JavaScript, Bootstrap and PHP. Basics skills will be needed for programming (—> only got the members o the "Web interface" group)</p>



WE WOULD NOT HAVE THE WAGONS WORKING SEPARATELY

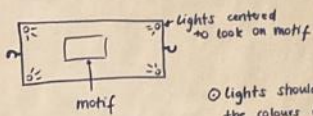
WE WANT TO USE THE I2C PROTOCOL WITH THE TCF895S GPIO EXPANDER

WE WOULD USE THE JST CONNECTORS

HOMWORK - HOW MANY WAGONS DOES EACH SCHOOL HAVE

- RESEARCH THE I2C PROTOCOL

ANIMATION

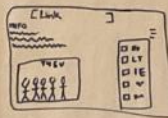


HW:

- photograph wagons + upload to ms teams
- make plans for already moving parts - how some wagons have to be upgraded to move

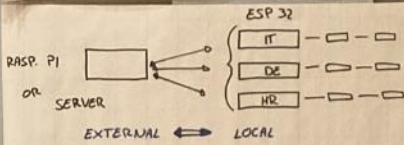
- Lights should light up with the colours of the flag depending on where the button was pressed
- Lights as a cohesive theme
- Sound: melody when all played together, each wagon with individual sound
- individual light placement depending on size, placement, etc of motif

Touch panel



What tablet to use?

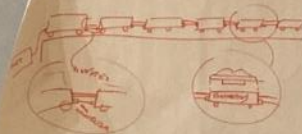
MAX FUNCTION OPERATIVE
TIME: 120 SEC
Cool down: 30sec per operation



HOMWORK

- RESEARCH THE I2C PROTOCOL
- RESEARCH RASPBERRY PI SPECS

POWER SUPPLY



HOMWORK

- CIRCUIT PLANNING
- TEST AND DESIGN CONNECTIONS

Room
0402
Jan
F414
Room
0404
Room
0404
Room
F424

WEBCAM

2x Cam2 per display case
analog/digital camera and lens adapter (ACES)
display case

Homework:
 D Pictures of Display Case - end of dec
 D PC availability - end of dec
 D Webcam research (max. 4000) - next meeting

Remote Local

Homework: How to configure and use Wi-Fi?

Tutorial on setup: How to configure and create a network (not working)

Web app/page
video
BTN
Send a request
Queue / Track B
Wi-Fi

HARDWARE:
 (CONTROL UNIT) → ESP8266 - ARDUINO IDE
 → INSTALL P4P4P54 LIBRARY
 → INSTALL CP2102 DRIVERS
 → {} - WIFI LIBRARY

SOFTWARE:
 2. WEBSITE → INSTALL PROGRAM CODE OR
 ON THE PC FOR THE... → INSTALL THE
 TOOL FROM INTERNET

SIGNAL CODING

TOUCH SENSOR
WiFi Line
Signal

Use
 1) Learn how to talk a microcontroller to a website

HTML WEBSITE

CSS Design
 BOOTSTRAP, BUTTONS
 JAVAScript Functions
 PHP: Connecting with database

imagines the web page in 7-8 weeks
 in time, design some basic about
 when each team submitted a motion
 (will do this about) Use of it some google
 search when you press on a time, the
 magnification of the original appears as it
 is "too" small

interface
 available