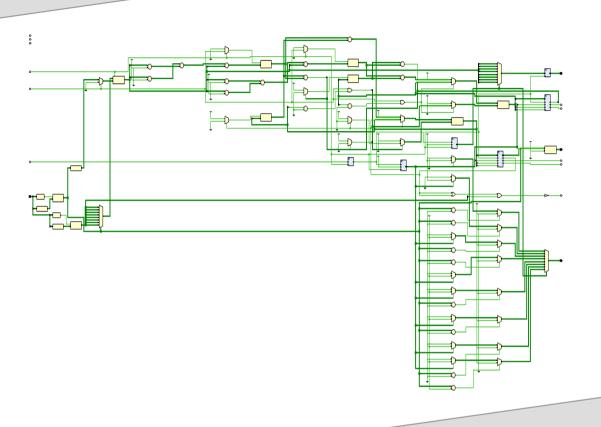
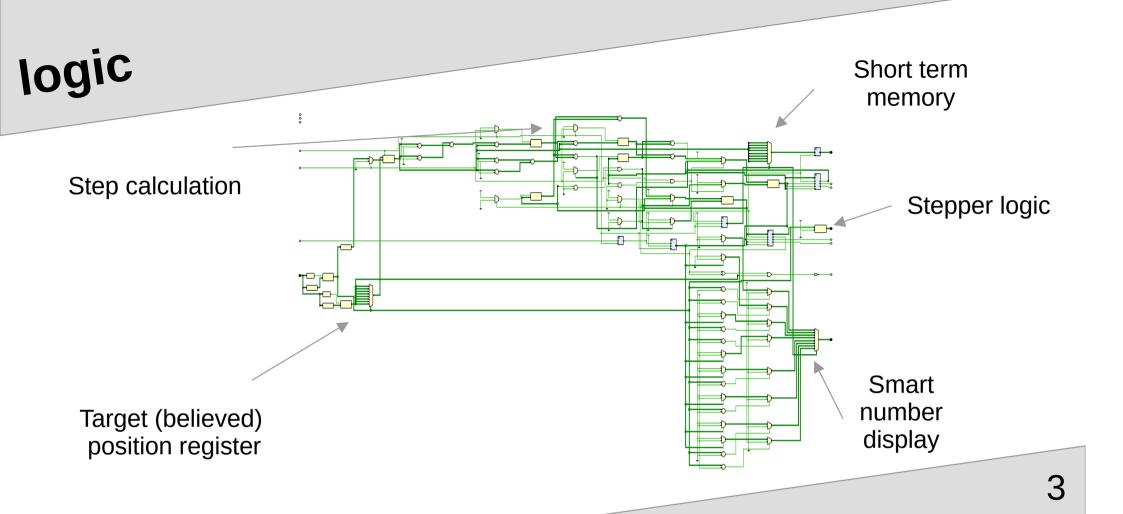
# 253050 – stepper driver

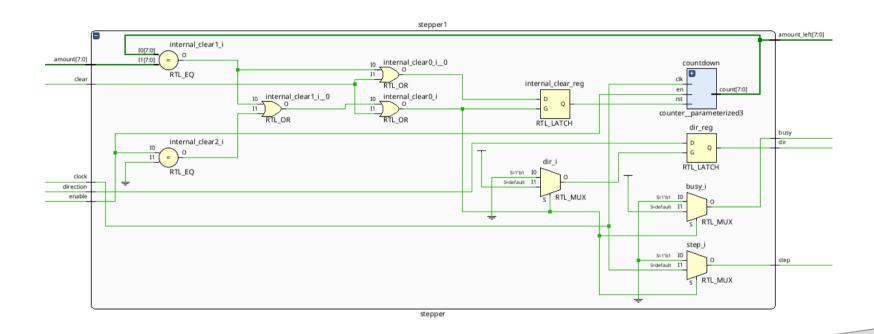
### logic



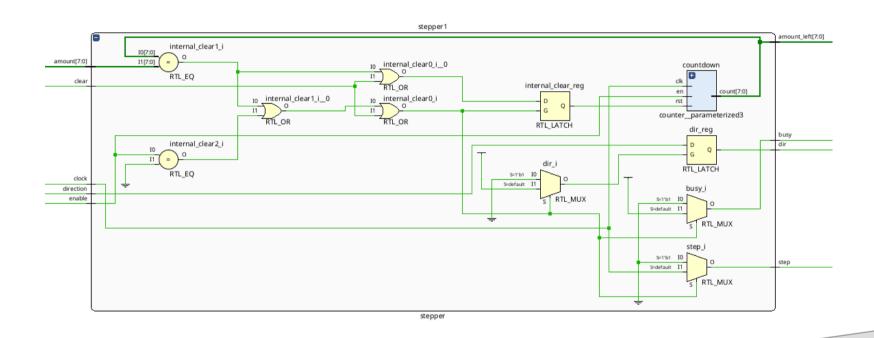
7



#### **Stepper logic**



#### **Stepper logic**



#### issues

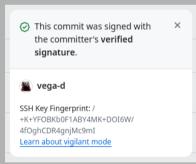
- no auto-home function achieved
- the hardware fell apart before I could finish the software
- the number inputting system could be more intuitive
- math is done dirty-dirty

## Bonus points (ig?)

- the project actually works
- I set a goal at the beginning of the project and I did achieve the goal
- everything is on github

#### Bonus bonus points (maaybe?)

- all git commits are signed with a public key using a smartcard HSM



```
reg1_motor1(7 downto 0) <=
std_logic_vector(to_unsigned(to_inte
ger(unsigned(reg_targetposition_mot
or1))-
to_integer(unsigned(reg_currentposit
ion_motor1)), 8));</pre>
```

```
reg1_motor1(7 downto 0) <=
    std_logic_vector(
        to_unsigned(
            to_integer(
                unsigned(reg_targetposition_motor1)
        )
        -
        to_integer(
            unsigned(reg_currentposition_motor1)
        ),
        8)
    );</pre>
```

#### **End**

"

This presentation totally was not made 1h before you saw it

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