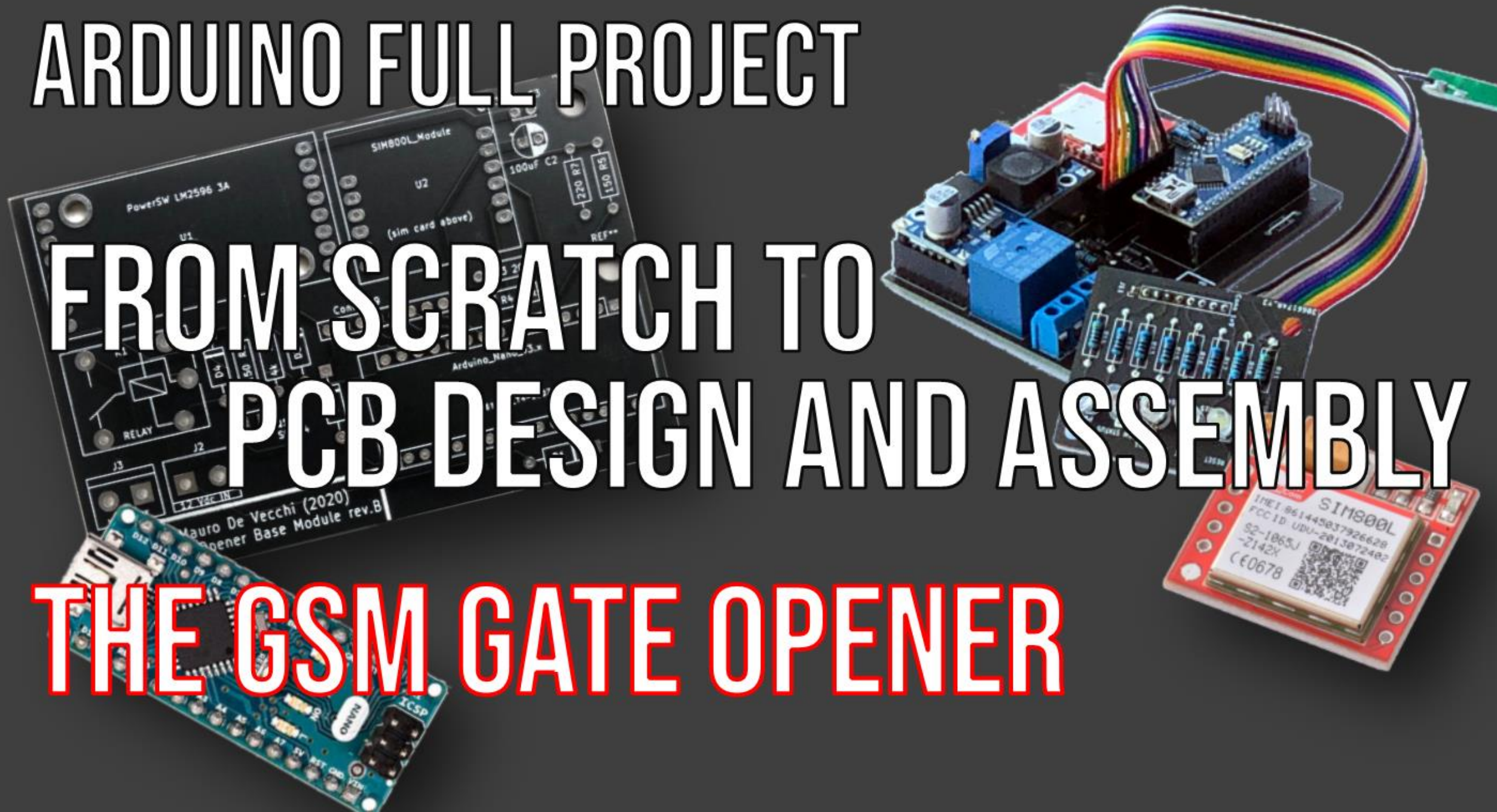


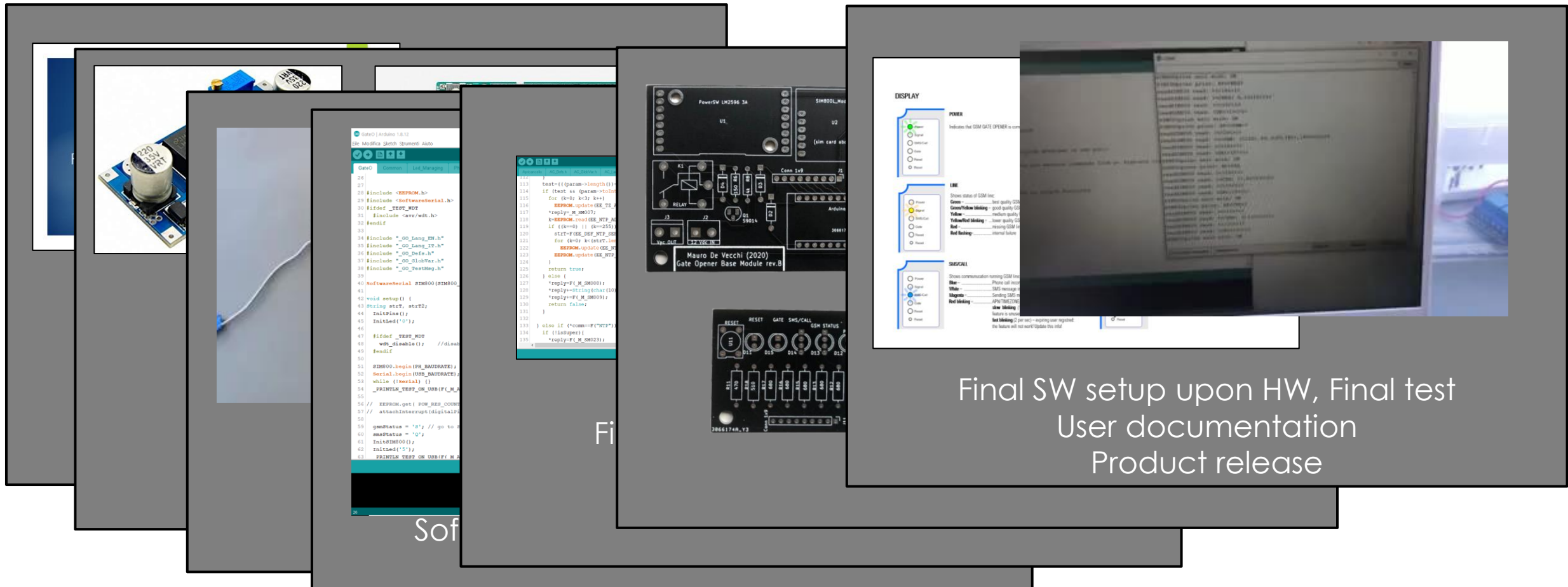
ARDUINO FULL PROJECT

FROM SCRATCH TO
PCB DESIGN AND ASSEMBLY

THE GSM GATE OPENER



Development steps



Project target

- Gate opener
- Easy to use
- Phone Driven
- Configure and use it only via sms/phone
- Self-diagnostics/self-retrieving
- Phone Line + simcard + GSM module monitoring
- User notification
- Arduino uno

Project details

SIMPLE USER ACTIVITY

- No PC setup needing “experts”
- No USB/serial config.
- No commands... parameters... settings... numbers... if possible

FULL INFORMATION ABOUT STATUS, ACTIVITY, DIAGNOSTICS

- Simple User Interface
- Again without parameters & technicalities... if possible

“ENHANCED FEATURES” AVAILABLE TO SKILLED USERS

- for “enhanced” requirements.

Arduino...

- Diagnostics, monitoring, timing

Project specifications

SIMPLE USER ACTIVITY

BASIC MODE: NO SMS, JUST CALLS

Calling the gate opener,
authorized phone numbers will
open the gate

Using a «config» button on the
device, enter in a «config» mode
for 5 min: register calling phone
numbers as «authorized» (think
about WPS feature on wlan
access points)

FULL INFORMATION ABOUT STATUS, ACTIVITY, DIAGNOSTICS

MONITORING LED

- Power
- GSM Signal level
- Input calls/SMS
- Gate opening
- Configuration mode

“ENHANCED FEATURES” AVAILABLE TO SKILLED USERS

EXTENDED MODE: OK, USE SMS ALSO

USER «phonenumber»
DEL «phonenumber»

There are «users» and «master» users:
USER can just open the gate by a call
MASTER can also change features sending
sms:

MASTER «phonenumber»
LIST MASTERS/USERS



“

HW parts
and module selection: SIM800L

”

Next video