# TECHNOLOGIES IN STEM EDUCATION
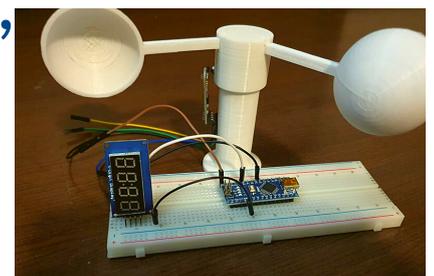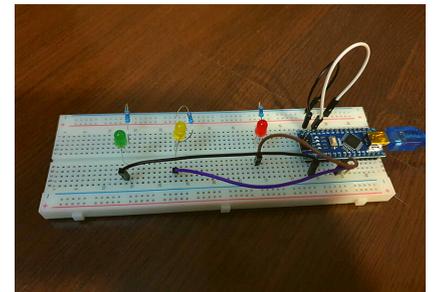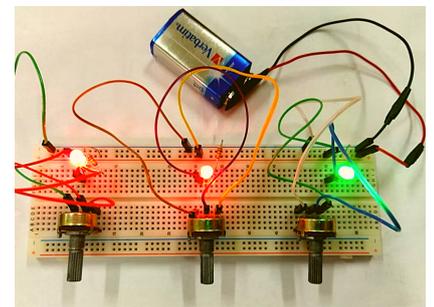
projects involving coding, ICT, big data, AI, VR, network security, etc.

FROM TEACHERS FOR TEACHERS

## Vocational High School for Electronics, Sofia, Bulgaria

# Educational kit

## STEM workshop

- **Aim**: To show the connection between science and technology
- **Task**: To build kits together using the laws of Physics and the skills to work with microcontrollers
- **Designed** for 14 -18 year-old Ss
- **Demonstration** of
1. **Ohm's law** with a Bradboard, LEDs, resistors and potentiometers
2. **Traffic light system** with Arduino microcontroller, LEDs and a button
3. **Anemometer** with Arduino microcontroller, 7-segment display and 3 cups
4. **Alarm** with pegs and batteries

## Encourage students to share ideas and practice together!