New Arduino Projects/Showcase

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- **Labyrinthian Circuit Sculpture Evokes Moods With Sound And Light | Hackaday** [2]

    We can?t help but wonder if [Eirik Brandal] was evoking such Wilde thoughts when he wrote to tell us about ddrysfeöd, an electronic sound and light sculpture which he called ?uselessly applied electronics.? Given the mood created by the video below the break, we have to agree that it is indeed quite artful. But if it serves a purpose to inspire and cause wonderment, is it really useless? Let the philosophers philosophize. On to the hack!

- **This Arduino radio looks like something from 100 years ago | Arduino Blog** [3]

    As time has progressed, personal radios have shrunk from the size of a large filing cabinet down to a tiny circuit that can be integrated into other ICs. Instructables user exposedwire wanted to bring back the feeling of a vintage 1920s radio set, so they built one out of wood that carries the same antique feeling with some more modern features.

    For the electronics, exposedwire went with an Arduino Uno for the main control board, along with a TEA5767 FM receiver IC that communicates with the Uno over I2C. The currently tuned frequency is displayed on a seven-segment LED module, which is driven by the ubiquitous TM1637 chip. The station can be changed by rotating the accompanying rotary encoder. Finally, the resulting audio signal is sent from the TEA1637 to an NS8002 amplifier and outputted from a small speaker.

- **Quit Hunching Over Your Screen With A Little Robotic Help | Hackaday** [4]

This simple Arduino-based build uses the ubiquitous MPU-6050 which provides 3-axis acceleration and 3-axis gyro data all processed on-chip, so it can measure where you?re going, which way you are orientated and how fast you are rotating. This is communicated via the I2C bus, so hooking into an Arduino or Raspberry Pi is a simple affair. There are plenty of Open Source libraries to work with this very common device, which helps reduce the learning curve for those unfamiliar with programming a fairly complex device.

[Hardware](#)

Source URL: http://www.tuxmachines.org/node/157032

Links:
[1] http://www.tuxmachines.org/taxonomy/term/39
[2] https://hackaday.com/2021/10/20/labyrinthian-circuit-sculpture-evokes-moods-with-sound-and-light/
[3] https://blog.arduino.cc/2021/10/20/this-arduino-radio-looks-like-something-from-100-years-ago/
[4] https://hackaday.com/2021/10/20/quit-hunching-over-your-screen-with-a-little-robotic-help/