



# Build Your Own Autonomous NERF Blaster: Programming Mayhem with Processing and Arduino

*Bryce Bigger*

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**Design and build your own robotic, Arduino-powered sentry blaster!**

**Break out the big daddy blaster**--and teach it to act on its own! *Build Your Own Autonomous NERF Blaster* walks you through cool DIY projects, such as working with motion sensors, remote monitors, and facial detection software, all while building up to the ultimate goal: a robotic NERF weapon that finds and fires on its targets! Have some serious fun along the way as you learn about creative coding with Processing and Arduino.

**Step-by-step instructions show you how to:**

- Construct and mount a servo, NERF blaster, and webcam in harmonious alignment
- Program Processing to receive video, search it for a face, and then pass instructions to your Arduino board via USB cable
- Configure Arduino to process the message and instruct the servo to move to a new position
- Specify your target radius in Processing and, when met, send the message to Arduino that it's time to "open fire!"



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