

**Build
Your Own**

Autonomous NERF® Blaster

Programming Mayhem with
Processing and Arduino



Bryce Bigger



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Robots with Arduino A Complete Guide to Robotic Systems your definitive roadmap to designing programming and building your own intelligent machines Whether you re a hobbyist student or aspiring engineer this hands on guide takes you on a journey from the basics of Arduino hardware to the full creation of functional autonomous robots With crystal clear explanations real world examples and detailed step by step projects you ll learn how to Understand and harness the power of Arduino microcontrollers Design mechanical systems and integrate sensors for real time interaction Program advanced behaviors using C C and Arduino libraries Build working robots including line followers obstacle avoiding bots robotic arms and more Troubleshoot optimize and expand your robotic systems No prior experience No problem Each chapter builds on the last introducing both theory and practice in an engaging and accessible way By the end you ll not only have the skills you ll have your own robotic creations to prove it

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