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AFFIDAVIT OF CHRISTOPHER BUTLER

1. I am the Office Manager at the Internet Archive, located in San Francisco, California. I make this declaration of my own personal knowledge.

2. The Internet Archive is a website that provides access to a digital library of Internet sites and other cultural artifacts in digital form. Like a paper library, we provide free access to researchers, historians, scholars, and the general public. The Internet Archive has partnered with and receives support from various institutions, including the Library of Congress.

3. The Internet Archive has created a service known as the Wayback Machine. The Wayback Machine makes it possible to surf more than 450 billion pages stored in the Internet Archive's web archive. Visitors to the Wayback Machine can search archives by URL (i.e., a website address). If archived records for a URL are available, the visitor will be presented with a list of available dates. The visitor may select one of those dates, and then begin surfing on an archived version of the Web. The links on the archived files, when served by the Wayback Machine, point to other archived files (whether HTML pages or images). If a visitor clicks on a link on an archived page, the Wayback Machine will serve the archived file with the closest available date to the page upon which the link appeared and was clicked.

4. The archived data made viewable and browseable by the Wayback Machine is compiled using software programs known as crawlers, which surf the Web and automatically store copies of web files, preserving these files as they exist at the point of time of capture.

5. The Internet Archive assigns a URL on its site to the archived files in the format `http://web.archive.org/web/[Year in yyyy][Month in mm][Day in dd][Time code in hh:mm:ss]/[Archived URL]`. Thus, the Internet Archive URL `http://web.archive.org/web/19970126045828/http://www.archive.org/` would be the URL for the record of the Internet Archive home page HTML file (`http://www.archive.org/`) archived on January 26, 1997 at 4:58 a.m. and 28 seconds (1997/01/26 at 04:58:28). A web browser may be set such that a printout from it will display the URL of a web page in the printout's footer. The date assigned by the Internet Archive applies to the HTML file but not to image files linked therein. Thus images that appear on a page may not have been archived on the same date as the HTML file. Likewise, if a website is designed with "frames," the date assigned by the Internet Archive applies to the frameset as a whole, and not the individual pages within each frame.

6. Attached hereto as Exhibit A are true and accurate copies of printouts of the Internet Archive's records of the HTML files for the URLs and the dates specified in the footer of the printout.

7. I declare under penalty of perjury that the foregoing is true and correct.

DATE: 1/5/17

Christopher Butler

CALIFORNIA JURAT

See Attached Document.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Francisco

Subscribed and sworn to (or affirmed) before me on this

5th day of January, 2017, by

Christopher Butler,

proved to me on the basis of satisfactory evidence to be the person who appeared before me.

Signature: Laurel Karr



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Editorial Reviews

From Book News, Inc.

Introduces the basics of building robots with Lego bricks and components. The author presents techniques for controlling motors and programming the RCX, suggest ideas for different styles of robots to build, and takes a peek into the world of Mindstorms robotics contests. *Book News, Inc.*, Portland, OR

Synopsis

Lego Mindstorms are a new generation of Lego Robots that can be manipulated using microcomputers, light and touch sensors, an infrared transmitter and CD-ROMs. The kits are now a staple part of engineering and computer science classes at many universities. This reference provides readers with a fundamental understanding of the geometry, electronics, engineering, and programming required to build robots. Mario and Giulio Ferrari share their knowledge and expertise of robotics as well as provide... [▶ read more](#)

Book Description

This book is about building robots using Lego bricks and components. In the first section of the book (Part I) we will discuss why you might find an interest in robotics as a hobby, and why Lego is an ideal system to have a fast start and great results. If you're reading this book you probably own a Mindstorms set, so you already have an interest in robotics, and for this reason we kept this part very short. Nevertheless you might find there some thoughts about what robotics can give to you and your family, besides a lot of fun. And how it can change your perception of the environment that's around you.

The second section (Part II) is about how to build a robot. Here we provide a set of tools you need to explore the world of robotics. Some basic knowledge about mechanics, motors, sensors, pneumatics, navigation, and many tips and tricks. We will compare different standard architectures, discuss solutions to common recurring problems, learn how to organize complex projects in terms of subsystems.

In the third section (Part III) we start to face the tough question, the one we actually would try to answer with this book: "I got a Mindstorms kit, I have learnt how to use it, what do I build now?". Here we will show you a large survey of possible ideas, but do not expect to find complete models to copy step by step.

8-Page Full Color Insert

The 8-page, full color insert will contain detailed photography of the most impressive robots that readers will be able to build after reading the book. The photos will also detail the more complex electrical and construction challenges.

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Spotlight Reviews (What's this?)

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3 of 3 people found the following review helpful:

★★★★★ **Excellent Resource**, December 30, 2003

Reviewer: [BigC "cbc"](#) (Houston, TX) - [See all my reviews](#)

I am not ashamed to admit that I am 28-going-on-29 and I absolutely love this book. It is very well written and highly detailed. As a Mechanical Engineer with 6+ years work experience I was certain that this book wouldn't live up to the expectations that the first few pages that I read in the book

store led me to develop. Was I wrong!! This book's simplified expansion of engineering concepts is unmatched. From Lego block geometry to gearing setup and programming. This book has it all if you'd like to go beyond the few missions that the mindstorm kit comes with. Don't be mistaken this book has no step-by-step instructions for building robots. It only introduces "snippet" to get your creative "juices" flowing. My understanding of Legos and their use has been greatly enhanced. To make things even better, the authors includes useful information on other Lego parts that are not included with mindstorm that are very important, i.e. light sensors, hydraulics, etc. If you are looking for a reference book to help you build better Lego creations, this book is it!!

Was this review helpful to you? yes no [\(Report this\)](#)

11 of 11 people found the following review helpful:

★★★★★ **A FUNDamental approach!**, January 14, 2002

Reviewer: [Leo Dorst](#) (Amsterdam Netherlands) - [See all my reviews](#)

This is a great book, since it not so much treats the basics of programming (as do many other Mindstorms books) but pays equally balanced attention to the principles behind making good mechanical constructions. I especially like the places where behavioral issues that are seemingly 'obviously programming' are obtained by clever mechanical solutions, since it matches my own way of looking at Mindstorms. Often, these solutions free up motor and sensor ports, and therefore permit to add more behavior onto the basic behavior of the original design.

You really learn many things from this book which you do not find in other Mindstorms books, because the authors take a pleasantly fundamental approach. There are chapters on Lego geometry, and a chapter on walking robots starts with an experimental explanation of the center-of-gravity, which is of course the fundamental problem behind the designs that follow. There are also some basics of signal processing which should help solve sensory issues structurally, without hacking, another commendable improvement over comparable books that ignore such problems.

The playfulness of the authors shines throughout, and this is what makes this serious book such inspirational fun - who would think of using Mindstorms to build a pinball machine or flight simulator? It is brimming with non-traditional ideas like these. The many illustrations are excellent, and there is enjoyment at every level: the design issues at large (such as what to relegate to the hardware, and what to the software), but also the design details; for instance there is an incredibly compact and simple turtle foot that needs to be built to be believed.

Beyond the fun, the book really serves as a good introduction to the principles of robotics, with Lego as the tangible and affordable illustration of those principles. Useful tables in appendices convey the new flavor: Mindstorms is now being elevated from a toy to a specific technical design platform, and thus professionalized (to the extent that the tool allows, of course). In my mind, this enhances rather than reduces the enjoyment of the kits, since the structural approach should eliminate many minor frustrations in designing working robots.

Highly recommended!

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