

PUBLISHER QUESTIONNAIRE SAMPLE

Bid Item# 3004
Title: Basic Robotics, 1st ed.
ISBN: 9781305900738

Course: Applied Robotics

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Author: Keith Dinwiddie

Grade Level: 9-12

Authors & Credentials: List full name of author(s), with major or senior author listed first. Briefly provide credentials for each author.

Keith E. Dinwiddie is the Technical Education Extension Specialist/Instructor at Ozarks Technical Community College where he has been teaching industrial maintenance and robotics classes full time since fall 2007. Previously, he worked in industry as an industrial maintenance technician while teaching as an adjunct instructor. He also has prior military experience maintaining Huey helicopters. A FANUC Certified Education Robot Training (CERT) instructor for both programming and vision systems, Dinwiddie has experience with various robotic systems, including Panasonic, Mitsubishi, NAO, LEGO Mindstorms NXT and hobby robotic systems.

Students: Describe the type(s) of students for which this submission is intended.

1. IDENTIFY AND DESCRIBE THE COMPONENTS OF THE MAJOR TOOL. The Major Tool is comprised of the items necessary to meet the standards and requirements of the category for which it is designed and submitted. As part of this section, include a description of the educational approach of the submission.

The MindTap reader ebook for Basic Robotics, 1st ed. provides a digital version of the content. This ebook platform provides engaging features, such as highlighting, note-taking, and readspeaker functionality. For instructor and reviewer convenience, the correlation to the Florida standards and the Teacher's Resource Guide are embedded.

Educational Approach (The information provided here will be used in the instructional materials catalog in the case of adoption of the program. Please limit your response to 500 words or less.)

Enhance your Applied Robotics course! Providing an excellent introduction, BASIC ROBOTICS equips students with a solid foundation in the industrial robot system and establishes a framework of understanding that is essential for entering the robotics industry. The text begins with an exploration of the fascinating technological history that led to the modern robot, starting with events from Before the Common Era and ending with a glimpse of what the robots of tomorrow might become. From there the text explores safety, various parts of the robot, tooling,

power transmission systems, the basics of programming, troubleshooting, maintenance, and much more. Engaging photos highlight various robotic systems and their parts, while stories of real-world events bring text concepts to life. This innovative First Edition incorporates many of the initiatives of STEM and is the culmination of lessons learned from Keith Dinwiddie's years of teaching robotics in various formats-from the traditional classroom to the industrial production floor with systems ranging from the LEGO Mindstorms NXT to the FANUC robot.

Major Tool - Student Components Describe each of the components, including a format description.

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Major Tool - Teacher Components Describe each of the components, including a format description.

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2. IDENTIFY AND DESCRIBE THE ANCILLARY MATERIALS. Briefly describe the ancillary materials and their relationship to the major tool.

The Instructor Companion Site provides convenient, online access to all resources supporting this text. Resources include, but are not limited to, Powerpoint Slides, test banks, and Instructor Manual and solution keys.

Ancillary Materials - Student Components Describe each of the components, including a format description.

n/a

Ancillary Materials - Teacher Components Describe each of the components, including a format description.

The Instructor Companion Site provides convenient, online access to all resources supporting this text. Resources include, but are not limited to, Powerpoint Slides, test banks, and Instructor Manual and solution keys.

3. HOW MUCH INSTRUCTIONAL TIME IS NEEDED FOR THE SUCCESSFUL IMPLEMENTATION OF THIS PROGRAM? Identify and explain the suggested instructional time for this submission. If a series, state the suggested time for each level. The goal is to determine whether the amount of content is suitable to the length of the course for which it is submitted.

The content is suitable for a one or two semester course.

4. WHAT Professional Development is AVAILABLE? Describe the ongoing learning opportunities available to teachers and other education personnel that will be delivered through their schools and districts as well as the training/in-service available directly from the publisher for successful implementation of the program. Also provide details of the type of training/in-service available and how it may be obtained. (The information provided here will be used in the instructional materials catalog in the case of adoption of the program.)

Staff development and training are available upon the adoption and purchase of these materials at the request of the school district.

5. WHAT HARDWARE/EQUIPMENT IS REQUIRED? List and describe the hardware/equipment needed to implement the submission in the classroom. REMEMBER: Florida law does not allow hardware/equipment to be included on the bid! However, schools and districts must be made aware of the hardware/equipment needed to fully implement this program.

MindTap is an internet based application and requires browser based hardware such as a PC, iPhone, Android Tablet, Chromebook, or other device. Internet access is required so the appropriate hardware and equipment should be maintained at the school building.

6. WHAT LICENSING POLICIES AND/OR AGREEMENTS APPLY? If software is being submitted, please attach a copy of the company's licensing policies and/or agreements.

CengageBrain Service Agreement is attached and available at www.cengagebrain.com/shop/terms.html
MindTap Service Agreement is attached and available at www.cengage.com/mindtap-service-agreement
Cengage Learning Privacy Statement is attached and available at www.cengage.com/privacy

7. WHAT STATES HAVE ADOPTED THE SUBMISSION? List some of the states in which this submission is currently adopted. None

8. LIST THE FLORIDA DISTRICTS IN WHICH THIS PROGRAM HAS BEEN PILOTED IN THE LAST EIGHTEEN MONTHS. None