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think was helped by the use of a robot. I also think that they were just fun to handle and programme." Viewed from the holistic perspective on the activity the robot did provide a focus - the

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lack of well-developed  
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Methods and solve these problems.

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for engineers who want a  
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fundamental topics of the  
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for position and orientation  
and velocities of objects.  
They will apply this by  
programming physical robots.

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~~Methods~~ involves finding the patterns and relationships between different things, like speed and power, or wheel diameter and distance travelled.

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a slightly more abstract  
(mathematical) formulation  
of the kinematics, dynamics,  
and control of robot  
manipulators. The current  
book is an attempt to  
provide this formulation not

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understanding of the basic  
underlying problems and the

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Methods  
lack of well-developed  
mathematical tools to model  
and solve these problems.  
There is a tradition of  
mathematicians working with  
roboticists. Many problems  
in robotics, or in the  
disciplines that are core to

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~~Methods~~ what we call robotics, have attracted mathematicians to this field. As far back as

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Mathematics and Robotics~~

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The term project should take  
about a month of work (40  
hours) per person. It should

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Ideally, the project should be connected to your research. If you are a first year graduate student, you

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springboard to research ...

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robots! Think of almost any  
of the clever things robots

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develops of a set of Design-  
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student success, combined  
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developing a mathematical model is termed mathematical modeling. Mathematical models are used in the natural sciences (such as physics, biology, earth science, chemistry) and engineering disciplines (such as

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Methods computer science, electrical engineering), as well as in non-physical systems such  
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