

Mime-Version: 1.0
Date: Sun, 26 Oct 1997 10:43:12 -0400
To: Alexandra Benis <editorial@akpeters.com>
From: Bruce Seiger <bseiger@concord.org>
Subject: Re: meeting with Joe
Cc: Klaus Peters <klaus@akpeters.com>

meetings with Joe have been good. He has made an outline for the book and I have made an outline for the curriculum. I must get in and speak with you and Klaus and Alice and Erin.
Is Monday after school OK?? the two outlines follow in TEXT format

- * Bruce's dedication
- * Preface to 2nd edition
 - Need for 2nd ed.
 - Story of the kit
 - New stuff synopsis
- Preface to 1st edition
- 1. Introduction
 - Revise text to match
 - Describe two new chapters
- 2. TuteBot
 - New LEGO construcion
 - 9V motors
 - Revise circuit
 - Describe brute force circuit
- 3. Comp. Hard.
 - MC138 circuit explained
- 4. Prototyping
 - The value of prototyping vs eng. studies.
 - AP Circuits
- 5. Sensors
 - Punt/revise bend sensors
 - New IR PSD sensors
 - Describe GPS, other positioning systems (?)
- 6. Mechanics
- 7. Motors
 - Recent motor driver chips (?)
- 8. Power
 - New power regulation circuit
 - Describe ground bounce error (?)
 - New batteries: NIMH, Li-ion, Zinc-air...
- 9. Programming
 - Subsumption -> Behavior control
- *10. What you can do with RWP
 - Maybe list a bunch of projects
 - Maybe describe one in depth
 - Examples of new SEMs
- *11. What's new in robotics
 - Sojourner
 - Fetch
 - Dente
 - J-Wax
 - Multi-agent cooperation
 - etc.....
- 12. Unsolved
- A. Schematics
 - New RWP schematic
- B. RW program
 - Revise existing wander program
- C. Yellow Pages

- [Secretarial help]
- D. Trade Mags. ←
- Robots on the web (?)
- E. Data books
- [Secretarial help] ←
- *F. Robot contests
- G. Color & ASCII code

Bib.
 New books from AKP, Rods new series, etc..
Index

and for the curriculum:

What is Robotics???

Lots of pictures of Robots in Action!!!!

Mobile Robots - the core

Lots of pictures of Robots in Action!!!!

First Steps:

- Soldering
- clip lead
- protoboard
- capacitor
- resistor
- battery
- Normally Open Switch
- Relay
- Motor

Mechanical and Electrical Engineering

A Wall Hugging Robot

The Transistor

TuteBot - a somewhat sophisticated Wall Hugging Robot

Advanced TuteBot - Worthwhile Extensions to the TuteBot concept.

Rug Warrior Pro - a truly Mobile Robot

Assume completion and push ahead with sample programs leading to an ultimate task - perhaps the fire contest in Connecticut.

A final final piece on other possibilities.

We have both been commenting on each others' outlines. Another meeting comes up this wednesday

These are my notes for discussions with Klaus...
basically it is a to do list for me!

talk with Klaus about LaTeX work by Alexandra and pics and photo
talk about editing ps versions of pics etc
Erin also

data books and supplier lists ie updating the yellow pages GRANT or SECRETARY HELP or HIRE A WHS
STUDENT

hire students to verify programs and how about pics anyway ie foreign versions

Read book carefully again.

look honestly at proposed revisions to include absolute necessitites and perahps wwish list

Flesh out the curriculum guide.

Write out one major piece for curriculum guide!

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See our Hands On Physics Units at:
<http://www.concord.org/HOP/hop.info.html>