



# ELEC 3300

## Project Information Tutorial

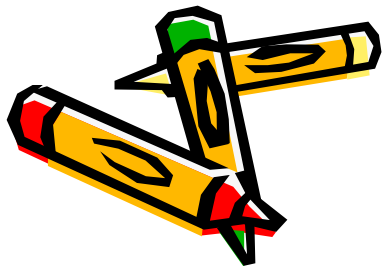
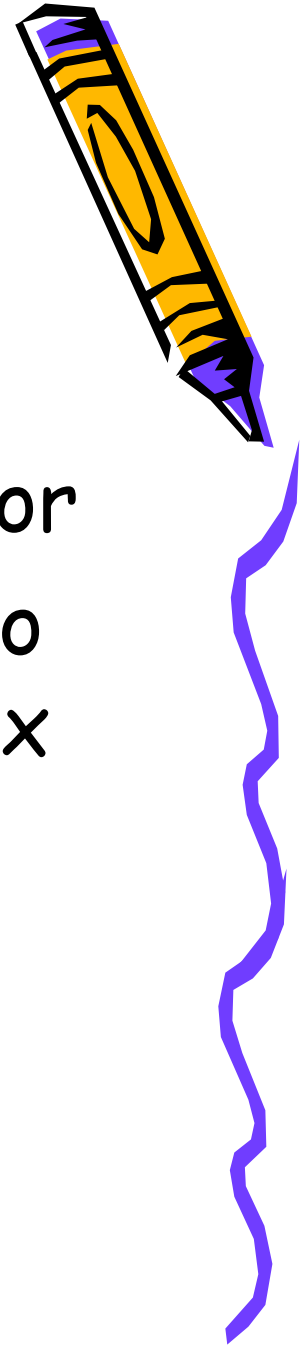
Department of Electronic and Computer Engineering  
HKUST

by WU Chi Hang



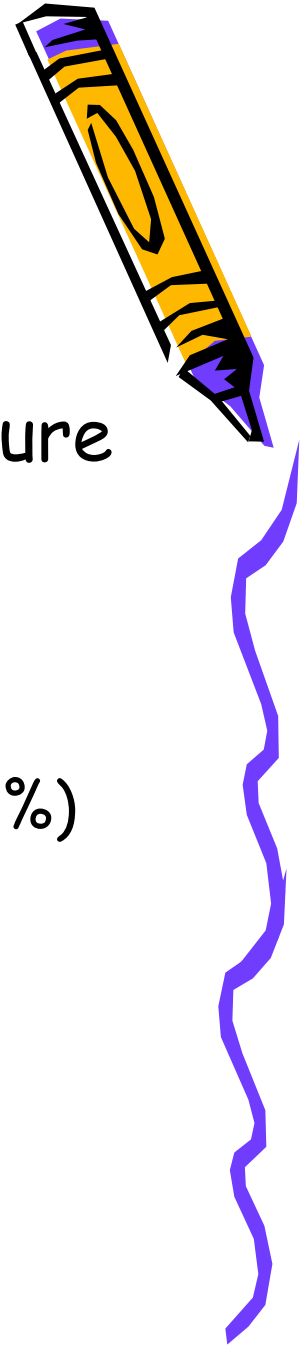
# Project Requirement

- The system should contain ONLY 1 microcontroller OR 1 microprocessor
- The whole project should be able to fit into an A4 paper box (i.e.  $L \times B \times H = 31\text{cm} \times 23\text{cm} \times 25\text{cm}$ )



# Project Grading

- Please refer to Course Description lecture notes page 12.
  - Proposal Presentations (5%)
  - Project Pre-demo (10%)
  - Project Demo (65%) + PPT Presentation (15%)
  - Report (5%)
  - Peer Evaluation



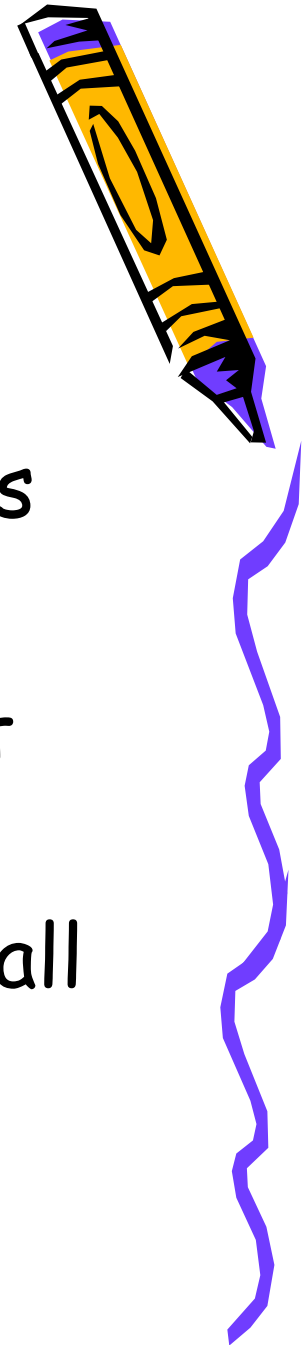
# LAB Opening Hour

- The LAB will NOT be available in the following hours:
- ELEC2200
  - LA1: Tue 15:00 – 16:50
  - LA2: Mon 10:30 – 12:20
  - LA3: Tue 10:30 – 12:20
- You are **REQUIRED** to leave the lab at the above time, and all the things inside the LAB at that time will be **CLEARED**
- You will be able to access the uP lab by your student ID card.
- You can only borrow the equipment in normal ELEC3300 LAB hours:
  - LA1: Wed 09:00 – 10:50
  - LA2: Mon 16:00 – 17:50
  - LA3: Wed 11:00 – 12:50

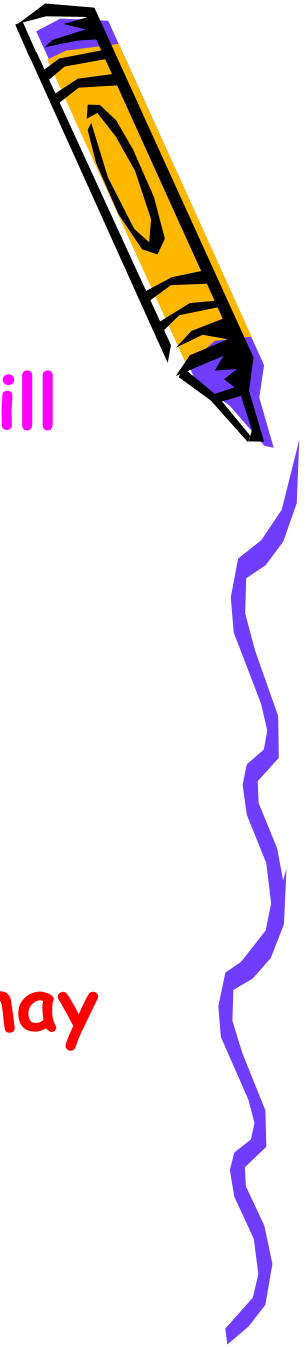


# LAB Regulations

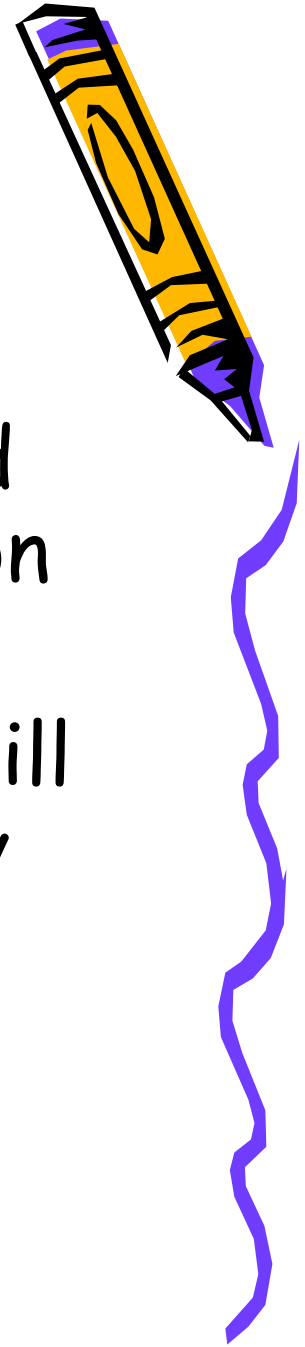
- Students should contact the **Technicians** to borrow equipments
  1. Breadboard
  2. Set EK – STM3210E development board with USB cable
  3. One pair of power cable and a small power supply.



- Students should **check their borrowed equipment within the first 2 days and report any damage/defects.**
- Beyond the first two days, students will need to pay for any damage of the equipment.
- Any group that does not pay for the damage will get a 0 in their project grade.
- Anyone who fails to return those borrowed things after **demonstration may get ZERO mark for course project!**

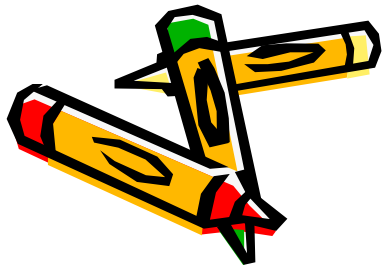
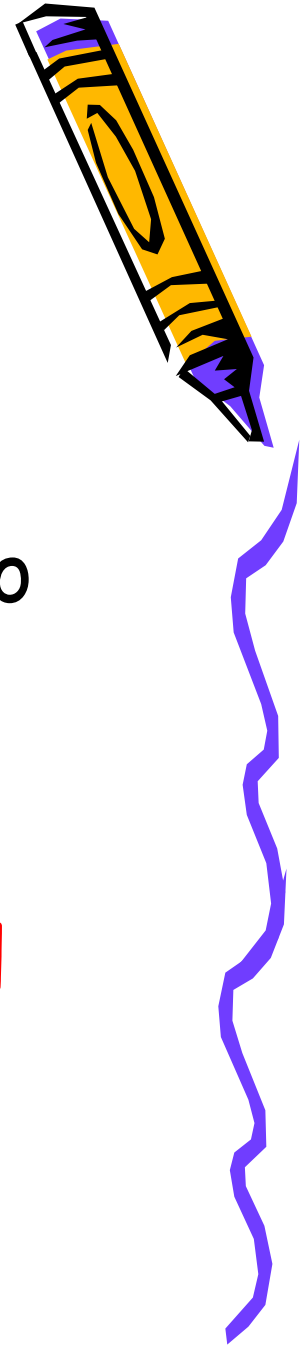


- Each **GROUP** can at most claim HKD200 for project expense.
- Those receipts should be submitted with reimbursement request form on the day of demonstration.
- The reimbursement request form will be distributed on that day. You may need to return those returnable parts of your project.



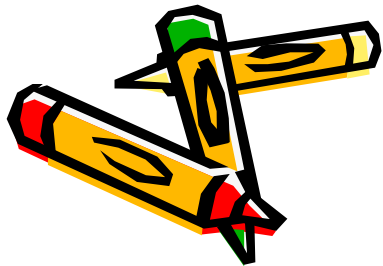
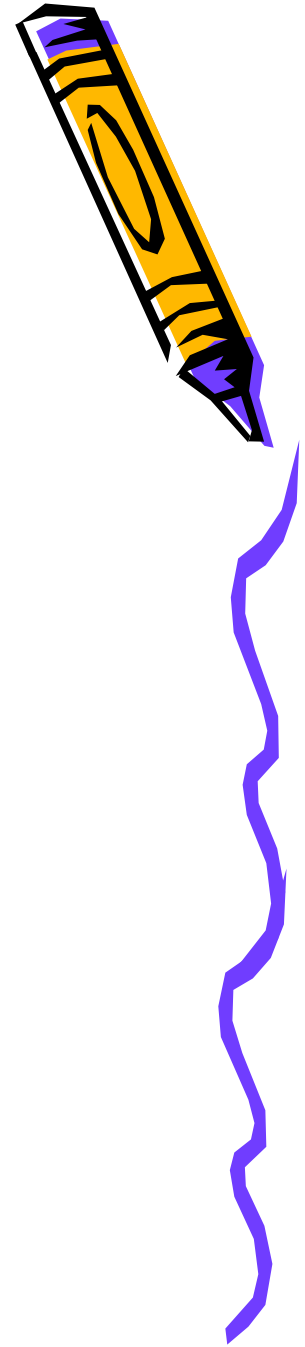
## **\*\*IMPORTANT\*\***

- You need to submit **formal receipts** for reimbursement.
- Please be reminded that you need to ask for receipts when you order goods (no matter it is online or by cash)
- **Bank statement or web printout will not be accepted.**



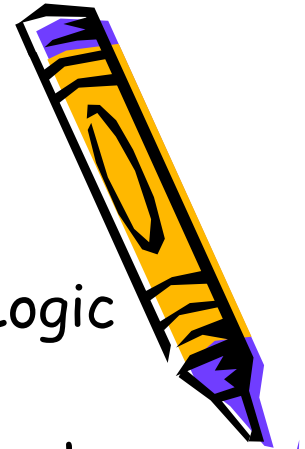


- If you have urgent need for the components, you can get some components from the lab. See the component list in the course page.
- The cost of components will be deducted from your project money (HKD200/group).

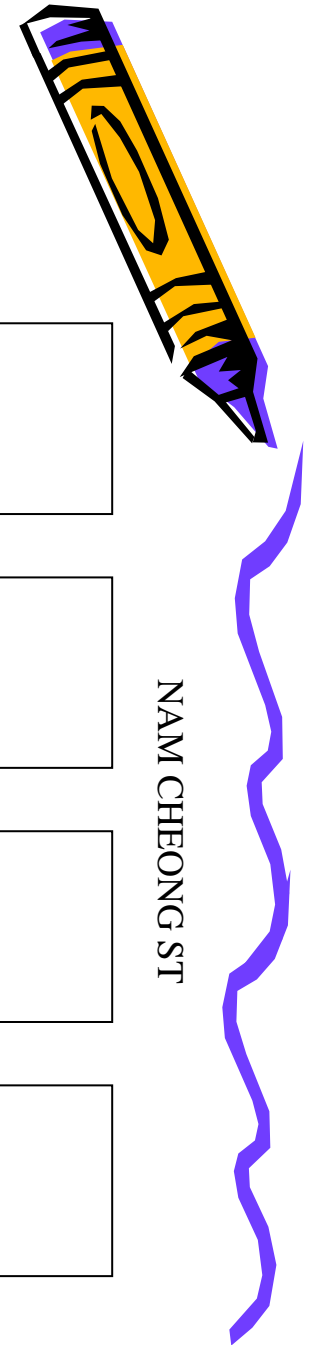


# Logic Levels

- The STM32 is using 3.3V as a Logic High and 0V as Logic Low.
- So, if you want interface with other devices, please note the voltage level.
- We recommend that you are using 3.3V compatible ICs.
- Note that the 74 Series IC that you are using in ELEC2200, those are operated at 5V. In that case, please note the difference in the logic level if it would affect the output/input.



# Getting Your Components

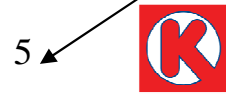
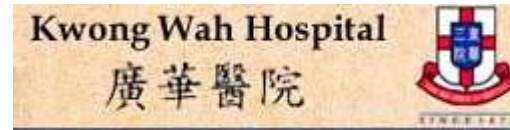




Shop 1: Cache Computer (G/F Golden Shopping Center)	Shop 4: Wing Shun Electronic & Metal Tools Co
Shop 2: Wing Shing Electronic Co.	Shop 5: Wo Hing Radio Co.
Shop 3: Cheong Kee Electronic Co.	Shop 6: Welfare Electronic Component Ltd



2<sup>nd</sup> Floor, Hung  
Kwong Shopping  
Center



TUNG CHOI ST

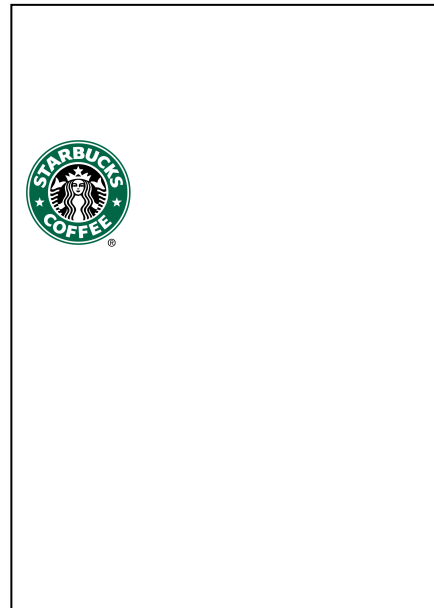
SOY ST



SAI YEUNG CHOI ST S

Smartone

DUNDAS ST



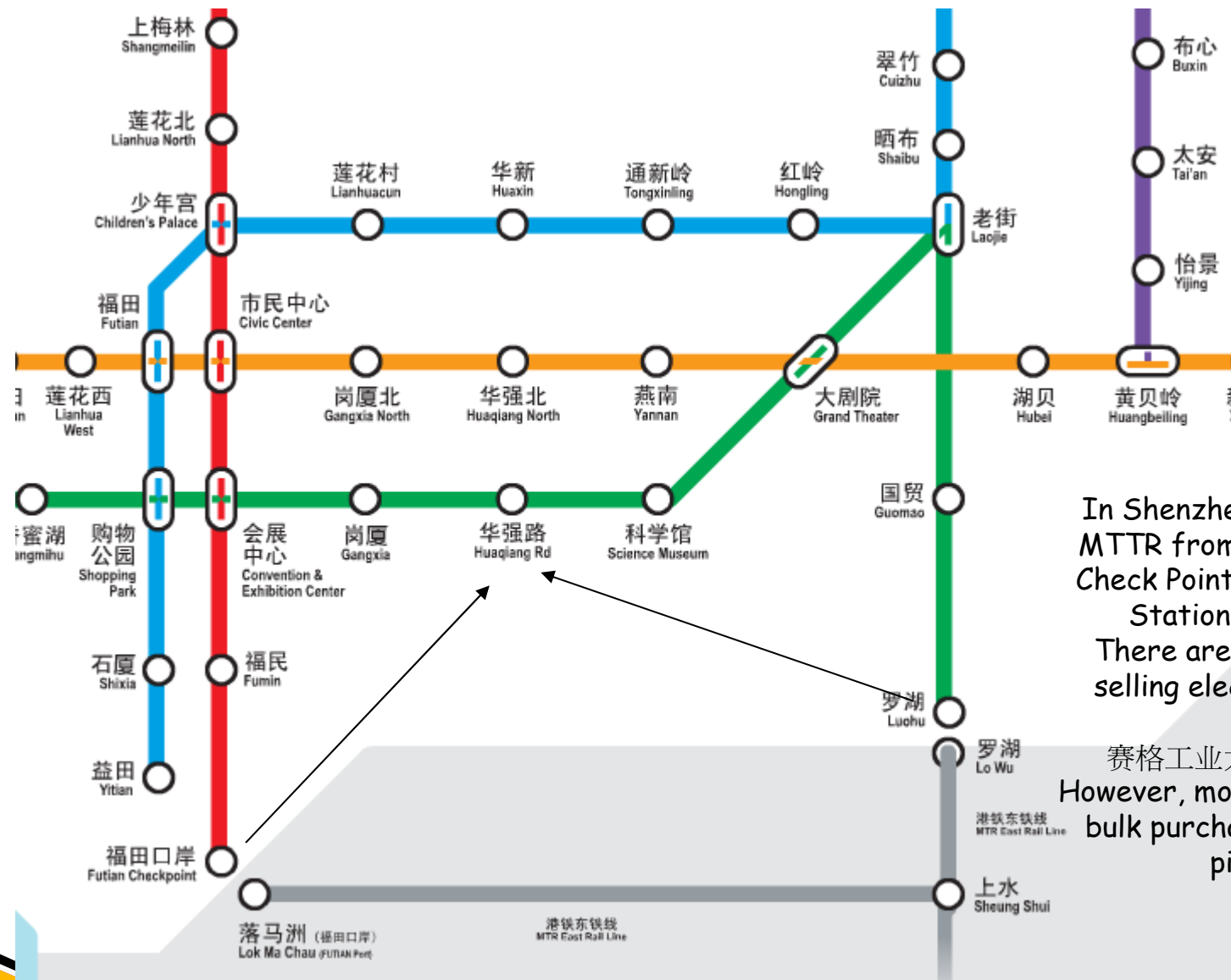
NATHAN RD





IC Master; [www.icmaster.com.hk](http://www.icmaster.com.hk)  
1/F Efficiency House, 35 Tai Yau Street,  
San Po Kong, Hong Kong.  
Tel : (852) 2308 1303  
Fax : (852) 2397 7055





In Shenzhen, you can take  
MTTR from Luohu / Futian  
Check Point to Huaqiang Rd  
Station at \$3 RMB.

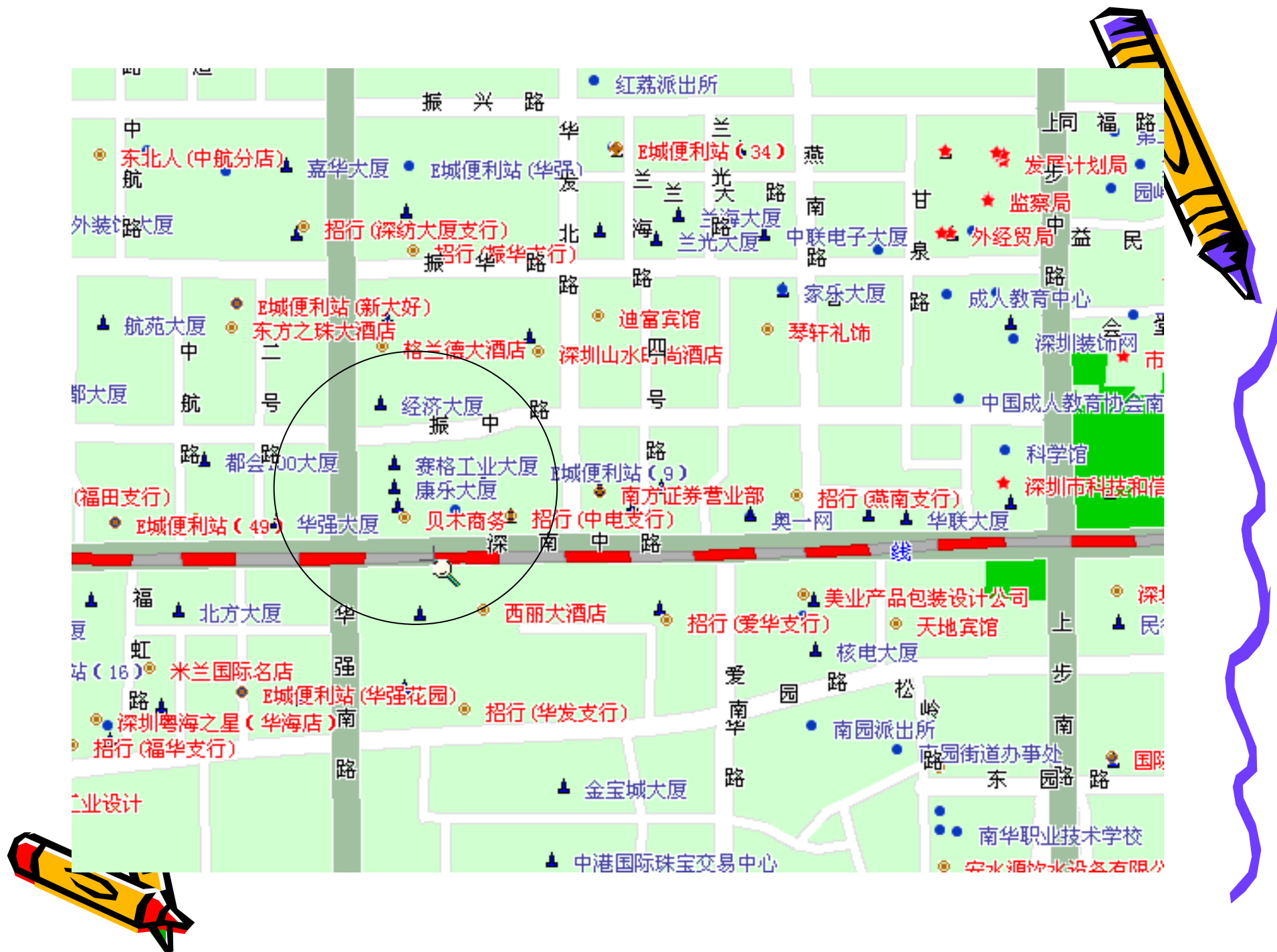
There are a few building  
selling electronic stuffs.

e.g.

赛格工业大厦, 华强大厦

However, most of them are in  
bulk purchase (i.e. over 1k  
pieces.)







# Getting Your Components

Online method

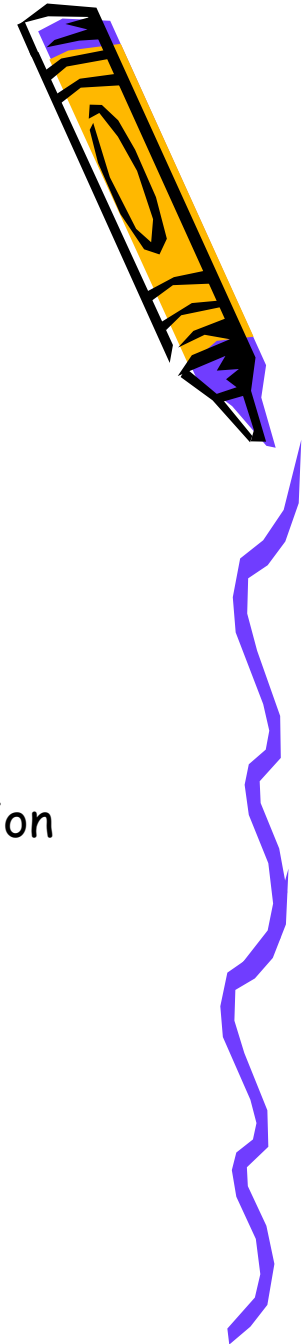
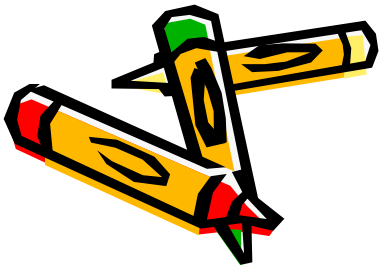
RS Components <http://hongkong02.rs-online.com/web/>

element14 <http://hk.element14.com/> (Previously Farnell)

Taobao [http://www.taobao.com/index\\_global.php](http://www.taobao.com/index_global.php)

Please make sure that you understand the component information when you put your order.

Also, please note that you need to give some time for delivery.



END

