# <u>ARCHITECTURE TABLE</u>

# —A multi-functional table

# The Thing

Drafting table is one of the most important tools for architects and painters to trace and copy out their design. However, students have insufficient income to afford a professional product. On the other hand, we believe that a good design should accommodate multi purposes and provides long-team benefit. And that's how we came out with our design — a table that perfectly meet the drafting purpose but also serves the daily use. We also presented two versions of the design, so as to fulfil the needs for different users.

# Requirement

#### Sustainable

Made from easily re-I cycled materials

#### Adaptable

Able to be used by any individual

#### Strong

**Student Size** 

Can fit into a dorm

### **User-friendly**

Easy for anyone to use

Affordable

As students don't

have a lot of income

In order to hold all needed equipment

## Features

- A transparent glass providing fantastic experience of architecture drawing
- Two versions for different types of customer

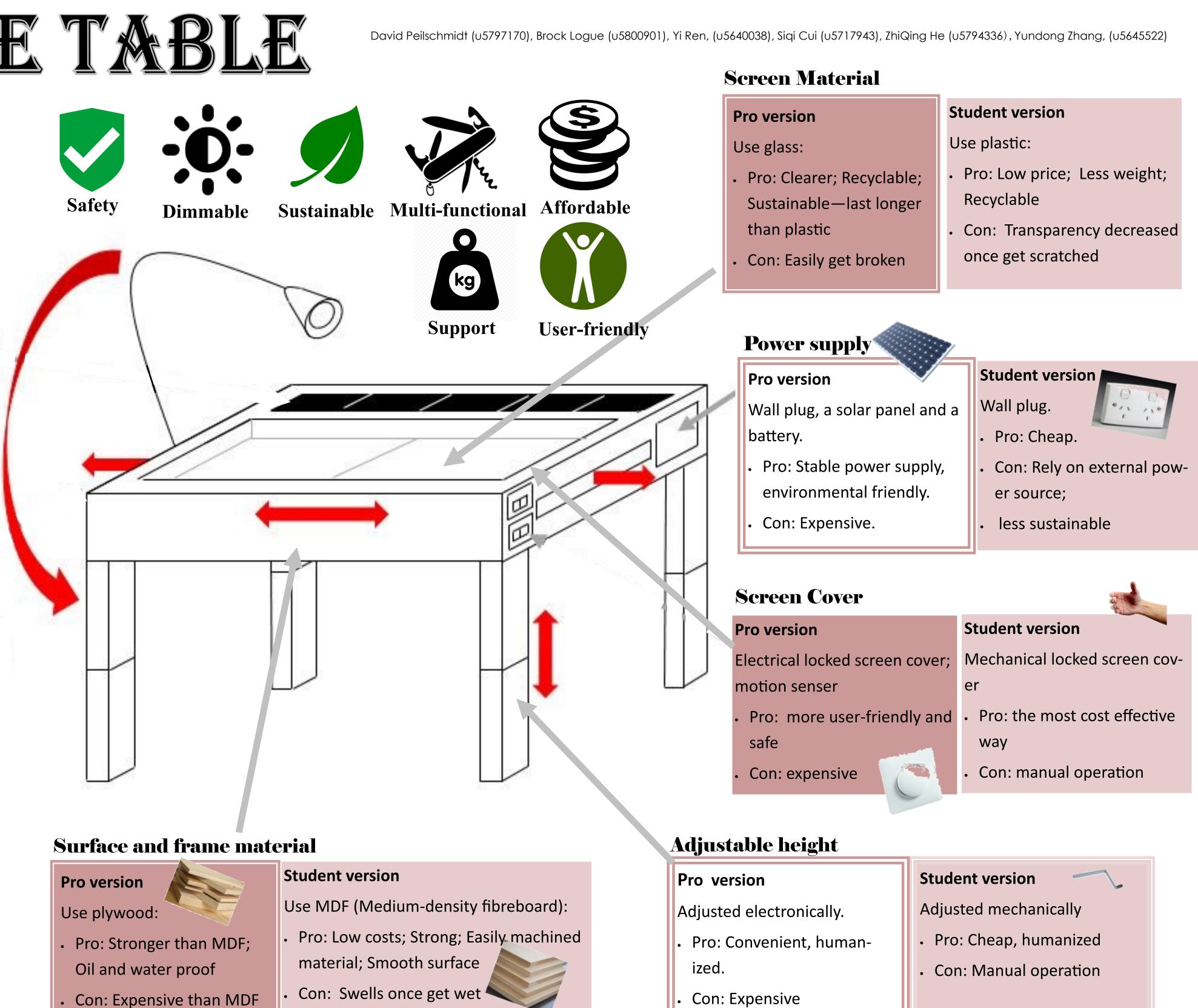
room

- Mechanical/Electrical adjustable legs
- Manually/automatically sliding cover on top for daily use

## **Comparison with Old System**

	Standard	Table+ light	Student	
	table	box	version	Pro version
Cost			$\checkmark$	$\checkmark$
Adjustable				
legs	<ul><li>✓</li></ul>	<ul><li>✓</li></ul>	<ul><li>✓</li></ul>	$\checkmark \checkmark$
Ability to				
trace			▲	✓
Power				11
supply		<ul><li>✓</li></ul>	▲	$\checkmark \checkmark$
Efficient			$\checkmark$	$\checkmark\checkmark$
Flexable				
light			✔	<ul><li>✓</li></ul>





### **The Future**

- Wheels on the table legs to move the table easily
- . Price will drop dramatically once the market identified
- Smooth the edges of table for safety use
- Implement more COTS components.

### **Design as Engineers**

- Client meeting and problem scoping
- Requirement ranking and trade-off identification
- System architecture analysis
- Design communication
- Evaluation and system mapping

#### References

Kristi, 2014, MDF vs. Plywood — Differences, Pros and Cons, and When To Use What, Addicted to Decorating, available from: <u>http://</u> www.addicted2decorating.com/mdf-vs-plywood-differences-pros-and-cons-and-<u>hen-to-use-what.html</u> [Jan. 2014]

D. Lin, 2014, Plastic vs. Glass - Why Plastic Containers Are Better , Packaging of the world. Available from: <u>http://www.packagingoftheworld.com/2014/04/plastic-vs-</u> glass-why-plastic-containers.html#sthash.DqdmcdVC.dpuf [Apr.2014]

Bunnings, 2016, CustomWood MDF 2400 x 1200 x 16mm Standard MDF Panel., Bunnings warehouse Australia. Available from: <u>http://www.bunnings.com.au/</u> <u>customwood-mdf-2400-x-1200-x-16mm-standard-mdf-panel\_p0590129</u> [Apr