STEM ACADEMY

OFFICIAL EDUCATION PARTNER Bambu Lab

AGES 13+ · ENGINEERING CERTIFICATION PROGRAMME

Young Engineer 3D Pro

Engineer real products. Earn a Siemens certification. Own a multi-colour 3D printer.

Ages 13+ | 8 days · 48 hours | Own Bambu Lab A1 Combo | Siemens certified



Teens learn professional CAD in Siemens Solid Edge, the software engineers use to design real products. They design, print and test parts and assemblies on their own Bambu Lab A1 Combo, then sit the Solid Edge Mechanical Associate exam.

What you get

- **Your own Bambu Lab A1 Combo**
  With AMS Lite for 4-colour printing (retail RM1,899)
- **Professional CAD**
  Siemens Solid Edge: sketching, parts, assemblies, drafting
- **Design for 3D printing**
  Tolerances, orientation, supports, PLA, PETG and TPU
- **Real engineering portfolio**
  Bracket, enclosure, assembly, drawing and a capstone product
- **Pitch your product**
  Present the capstone to parents on the final day



INCLUDED

Bambu Lab A1 Combo
With AMS Lite + 2 spools of filament

Course + printer

RM3,899

Early bird RM3,699
Each extra sibling RM1,999 (course only, shares the family printer)

CERTIFICATION

SIEMENS SOLID EDGE CERTIFIED Mechanical Associate

Siemens Solid Edge Mechanical Associate certification
STEM Academy × Bambu Lab Young Engineer certificate

48 hrs
of engineering training

8
modules

5
portfolio pieces

STEM ACADEMY

OFFICIAL EDUCATION PARTNER Bambu Lab

Things you'll make



Mounting bracket



Enclosure



Gear assembly



Capstone product

8 modules · 48 hours

Module	Topic	You make
1	Printer, AMS Lite & Solid Edge basics	First multi-colour print
2	Sketching	Fully constrained sketches
3	Part modelling I	Mounting bracket, printed
4	Part modelling II	Enclosure or case, printed
5	Assemblies	2–3 part assembly, printed and fitted
6	Drafting & design for additive manufacturing	Technical drawing + tolerance test
7	Capstone product & exam prep	Capstone prototype
8	Certification & product pitch	Solid Edge exam + pitch

Good to know

- 6 hours a day, over 4 weekends or an 8-day holiday intensive
- Up to 10 students per class, 2 trainers
- Solid Edge is free for students to keep using at home

Next step

Interested in engineering, design or construction tech? Ask us about the **MTTC College Diploma** pathways.

Register / enquiries
stemacademy.my
STEM Academy Petaling Jaya · Iskandar Puteri

Jacky Loke · Brand & Business Development Manager
016-5273661 · jackyloke@mttc.edu.my

Bambu Lab