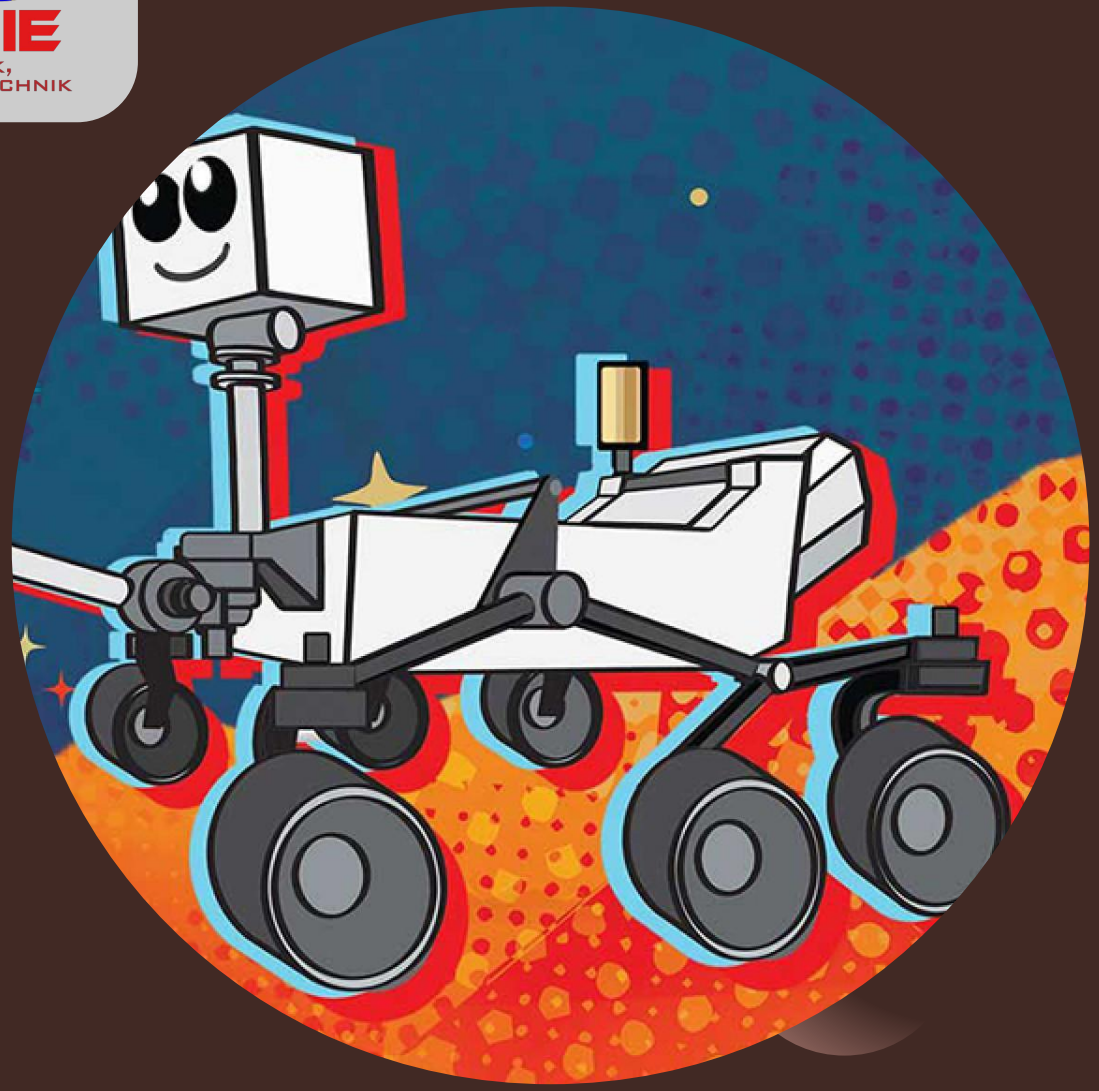
MINT GENIE
Mathematik, Informatik, Naturwissenschaft und Technik

RobotinX

Imagine-Build-Tinker

By
MINT Genie



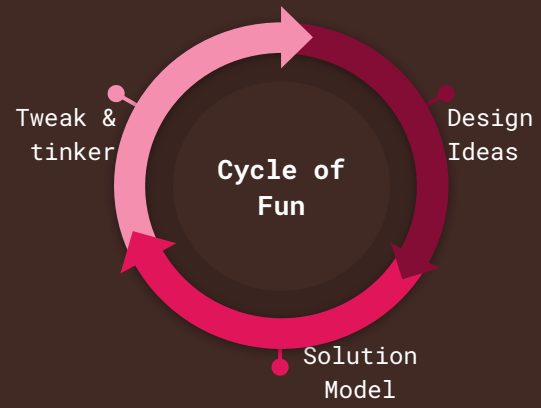
A robotics program for the
Xtra-Curious and Specially Talented

Nurturing Special Talent

- STEM/MINT education plays a key role in ensuring a pipeline of advanced talent feeds the industry
- Gifted Education strategies makes a meaningful difference for high-ability kids
- Our approach:
  - Accelerate learning to strengthen basics
  - Compact content to avoid repetition of topics
  - Group children with similar abilities
  - Provide hand-picked challenges to cater to the skill level and interest of children rather than “one-size-fits-all”
  - Prepare the children to participate and represent the school at Robotic competitions
  - Feed the curiosity - #BeInquisitive

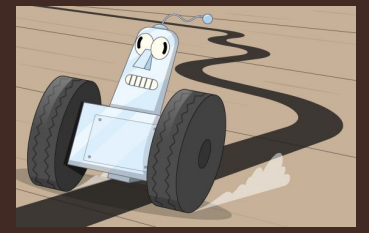
Idea → Goal

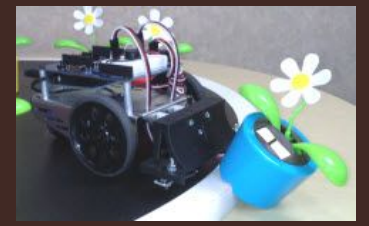
Just the beginning



Every 6-month program's focus is to:

- Help kids generate unique ideas for challenging projects like:
  - Maze solvers, Obstacle Run, Drawing Robots, Synchronized dancing
  - Fire fighting, Search & Rescue, Line followers, Sumo bot or Racing to name a few
- Pay attention towards -
  - Programming techniques, Design methodology, Mechanical design & Team work
- Showcase projects during school events (ex. open days)
- Running simulated robotics competitions to gear up to real competitions





Our Program is carefully crafted to be platform agnostic; we can use either of:

Platform	Relevance	Programming	Build style	Cost
BBC Micro:bit	Entry-Intermediate	Blocks and Python	DIY/custom style	Low cost
Lego Education Spike	Entry-Intermediate	Blocks	Lego Bricks & Technic	Expensive

Platforms

BBC Micro:bit - https://microbit.org/
Lego Education Spike - https://www.lego.com/

Why we choose these platforms:

- **Designed for education:** Simple robotics platform for anyone to start but powerful enough to solve complex problems
- **Gender agnostic:** Kit's design elements prevent any sort of bias encouraging the shy and fearful to spread wings
- **Strums your senses:** Colors, Sounds, Movement, human-interfaces, environment sensing capabilities - just to begin with...
- **Progressive:** Start with basic block programming and adapt to Python language programming
- **Latest Tech:** We know tech gets obsolete soon and learning relevant concepts on trending platforms is the key
- **Ease of access:** Continue beyond the program as a goto hobby kit with limitless possibilities
- **Support:** As active member on the makecode forum, we exchange ideas and suggestions to resolve issues quickly

Checkout:

https://microbit.org/impact/research/

https://iopscience.iop.org/article/10.1088/1742-6596/1339/1/012082

Why MINT Genie?

- Team of very passionate industry professionals working on similar technologies
- Many years of training experience in workshop and classroom setting
- As parents ourselves, we strive to provide the best to help the child's future
- We work with the school and children as mentors when they enter competitions
- We extensively test our platforms to keep it child-friendly
- Provide resources and conduct workshop for children who prefer to continue
- Checkout more about our other programs on our website

Our main motto

- Have fun while learning - keeps you coming back for more

Material Required

For Micro:bit based sessions: (group size of 15-20)

Sl.No.	Item Description, seller and link	Quantity	Cost*
1.	BBC micro:bit 10 Student Classroom Pack (Kitronik Stock code: 5616) https://kitronik.co.uk/products/5616-bbc-microbit-classroom-pack?_pos=78&_sid=50d3ca01d&_ss=r	2 Nos. (pack of 10)	~ 160 Eur per pack of 10
2.	Kitronik :MOVE Motor for the BBC micro:bit (Kitronik Stock code: 5695) https://kitronik.co.uk/collections/microbit-accessories/products/5683-kitronik-move-motor-for-the-bbc-micro-bit?variant=32638329716799	20 kits	~ 28 Eur per kit

------ OR ------

For Lego Education Spike based sessions: (group size of 15-20)

Sl.No.	Item Description, seller and link	Quantity	Cost*
1.	LEGO® Education SPIKE ™ Prime Set Option1 :https://www.lego.com/de-de/product/lego-education-spike-prime-set-45678 -OR- Option2 :https://www.amazon.de/Lego-Education-Spike-Prime-Set/dp/B07QN7ZJF9/ref=sr_1_1?dchild=1&keywords=Lego+spike&qid=1594033709&s=industrial&sr=1-1-catcorr	10 (2 kids/set)	~ 350 Eur per kit

* Cost shown is consumer price, educator discounts and pricing could differ.

Our research

The MINT Genie Go-No-Go Tests:

- Similar platforms we tested:
  - Lego Mindstorm - Best robotics platform out there but expensive
  - Arduino - Not block-programming friendly
  - Raspberry Pi - Big jump overwhelms beginners

- Similar products:
  - https://shop.pimoroni.com/products/bit-bot-xl-robot-for-micro-bit
  - https://www.amazon.de/RETYLY-Roboter-Fuer-Mikro-Programmierbare/dp/B07WHN9TQS/ref=sr_1_6?dchild=1&keywords=microbit+roboter&qid=1593995880&sr=8-6
  - https://www.amazon.de/Freenove-Micro-Include-Tutorial-microbit/dp/B07QV5VS5W/ref=sr_1_4?dchild=1&keywords=microbit+roboter&qid=1593995979&sr=8-4
  - https://kitronik.co.uk/products/5657-kitronik-lesson-in-a-box-simple-robotics-for-the-bbc-micro-bit?pr_prod_strat=copurchase&pr_rec_pid=4501399044159&pr_ref_pid=4492263489599&pr_seq=uniform

Thank you !!!

Please contact us for any queries about the program

MINT Genie Team

Geetha Madappa | Shravan Suryanarayana
Shrikant Sagar | Richa Srivastava

Mob: +49-15168552865
www.MINTGenie.de
www.facebook.com/MINTGenie.de