

WELCOME TO

STARS

WHAT IS STARS?

STARS IS A CLUB BUILT TO EQUIP STUDENTS WITH THE SKILLS AND TOOLS NEEDED IN THE INDUSTRY.

ENGINEERING

SOFTWARE

THROUGH THESE PATHWAYS, WE WILL HELP YOU ESTABLISH A SOLID FOUNDATION, IN ANY FIELD THAT YOU DESIRE.

MEDTECH

BUSINESS

WHAT EXPERIENCE WILL I GET?

THROUGH A VARIETY OF WAYS:

CERTIFICATIONS

- -ALL TYPES OF CERTIFICATIONS
- BUILD A STRONG FOUNDATION

COMPETITIONS

- **COMPETITIONS IN EVERY BRANCH**
- **OPEN TO SUGGESTIONS**
- **IN SCHOOL AND OUT OF SCHOOL**

WORKSHOPS

- **ENGINEERING**
- **BUSINESS**
- **SOFTWARE**
- **WE TARGET SKILLS IN THESE CATEGORIES**

INDUSTRY

- **REAL LIFE CONNECTION TO THE INDUSTRY**
- **BUILD THE SKILLS NEEDED IN THE WORKFORCE**

WHAT STARS GOAL IS

**STARS GOAL IS TO PROVIDE STUDENTS WITH
KNOWLEDGE**

EXPERIENCE

- **COMPLETELY DEPENDS ON WHAT
THE STUDENT WANTS TO LEARN**

- **BUILD A CREDIBLE
FOUNDATION**

STARS IS FOR LEARNING

- **LETS DIVE RIGHT IN!**

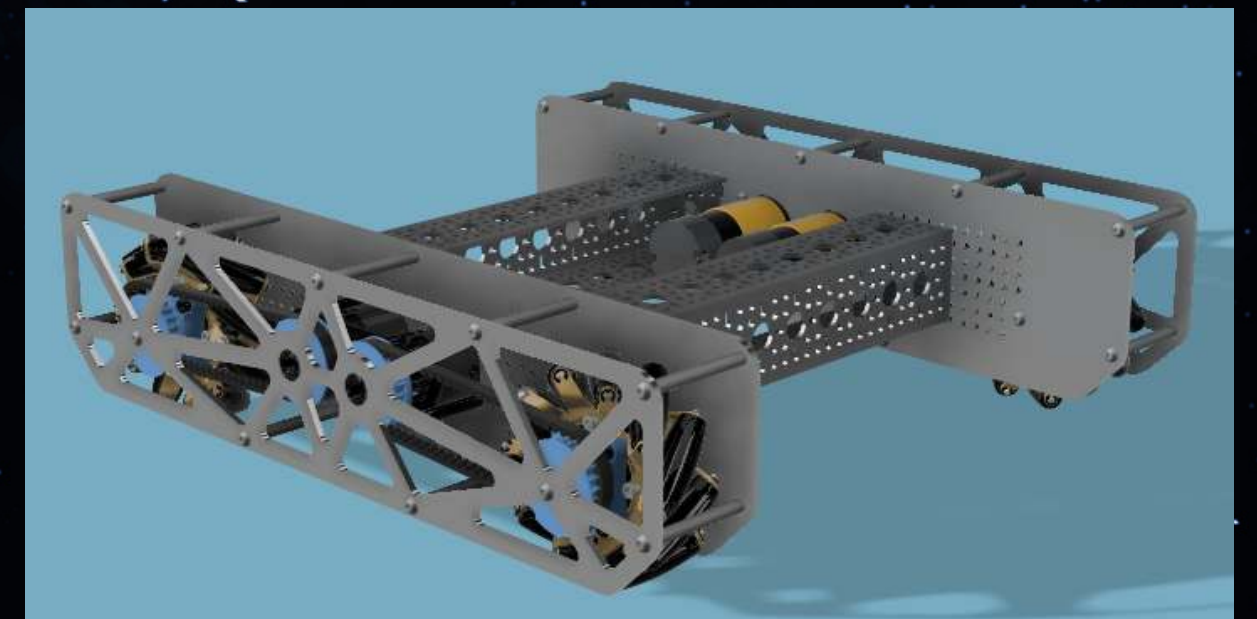
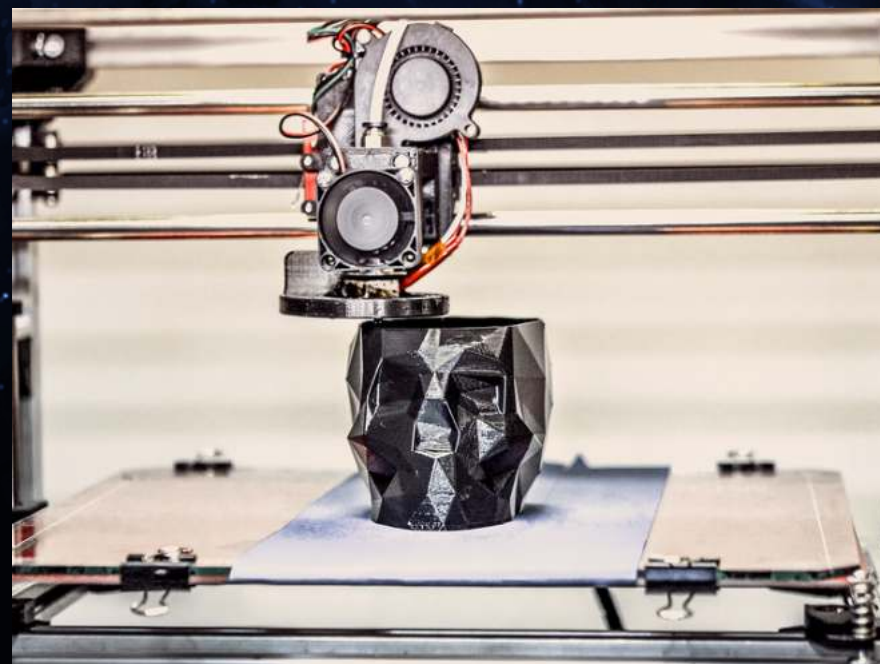
ENGINEERING

ENGINEERING

The Engineering Division of STARS introduces students to the field of Computer Aided Design and its endless potential possibilities. This is the foundation of STARS and works with all of the other in diverse avenues in diverse ways.

WHAT DO WE DO?

The Engineering Division of STARS introduces students to the field of Computer Aided Design and its endless potential possibilities.



PROVIDING OPPORTUNITIES

- Hands-on access to the school's Makerspace Lab
- Autodesk Inventor and Fusion 360 Certifications
- Potential SolidProfessor tutoring sessions
- Real-life applications of CAD in both industry and club projects



AUTODESK
Fusion 360



AUTODESK
Inventor

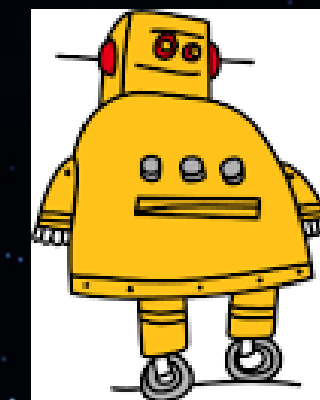


COMPETITIONS



- **Make:able Competition: Assistive Technology Design Challenge**
- **Instructables Autodesk Fusion 360 Design Challenges**
- **Schoolwide Challenges**
- **And potentially many more...**

What's this?



AUTODESK
Instructables

MEDTECH

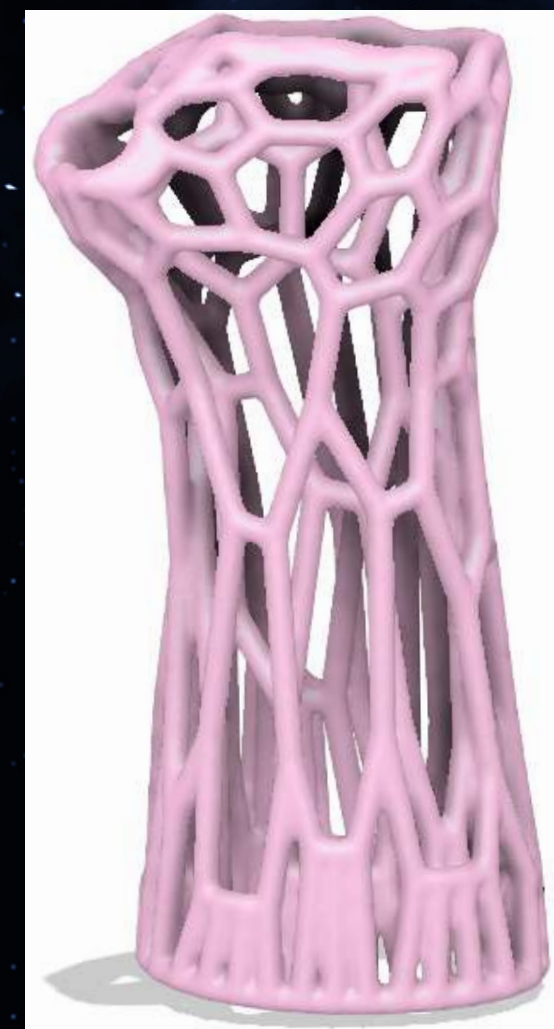
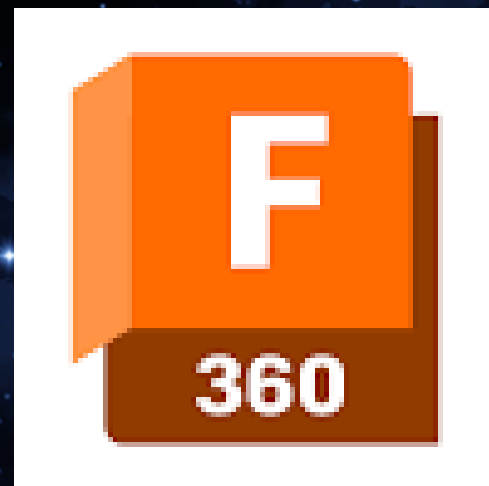
WHAT IS MEDTECH?

MedTech aims to involve medicine and bioengineering into the fields of engineering and software. We will work alongside the CAD Engineering folks.

WHAT ARE WE GOING TO ACCOMPLISH?

MedTech is primarily aimed at bioengineering and developing new products for the medical field; however, we will also indulge in medical software.

- Existing projects?
- Competitions
- Research projects
- Utilize various modeling softwares (Fusion 360, MeshMixer, nTopology, etc)



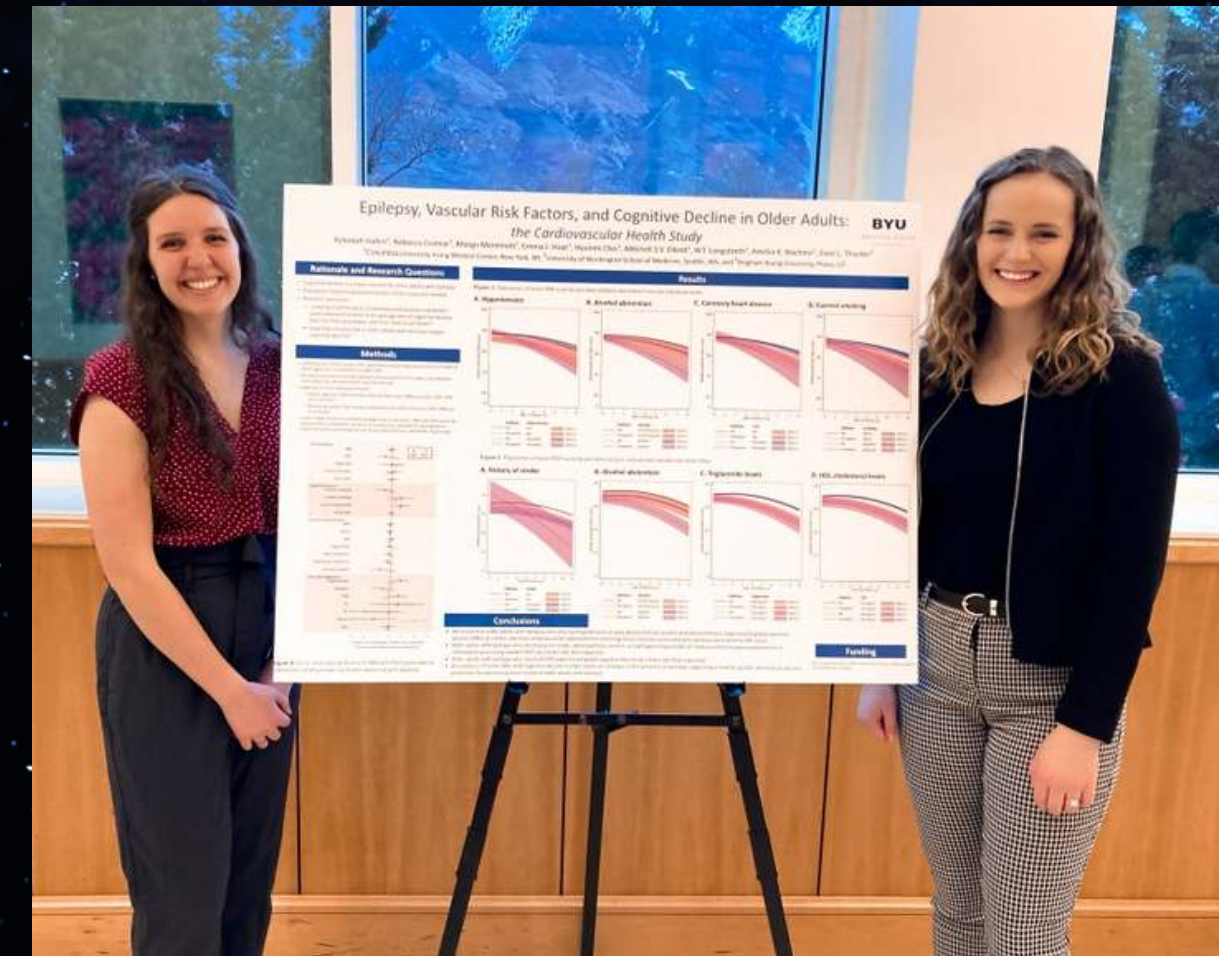
WHAT IF I DON'T HAVE ANY GOOD IDEAS?

If you don't have any good ideas, don't worry! Our R&D managers are more than willing to help you come up with ideas, make a design, and prototype/develop!

END RESULTS?

We want to encourage students to develop solutions to problems they are inspired by!

- Utilize our Makerspace lab!
- Present projects in competitions
- STEAM Fairs, PBL projects, research projects
- Looks great on your resume!
- Learn a variety of softwares!
- Gain experience in the field you want to work in.



WHAT COMPETITIONS CAN I PARTICIPATE IN?

Because we are working right alongside the Engineering Pathway, we will share the majority of competition opportunities.

- Compete directly in Make:able's Medical Devices competition
- Competitions sponsored by Autodesk on a current world problem
- Become certified in Inventor or Fusion 360!
- Compete directly with students from MedTech and Engineering Divisions
- Prizes available from Autodesk's competitions! (Must place in top 5)



Top Prize Placer in Summer 2022 Autodesk Design Challenge
Children's Insulin Pump Toy, -Subash Anuradha

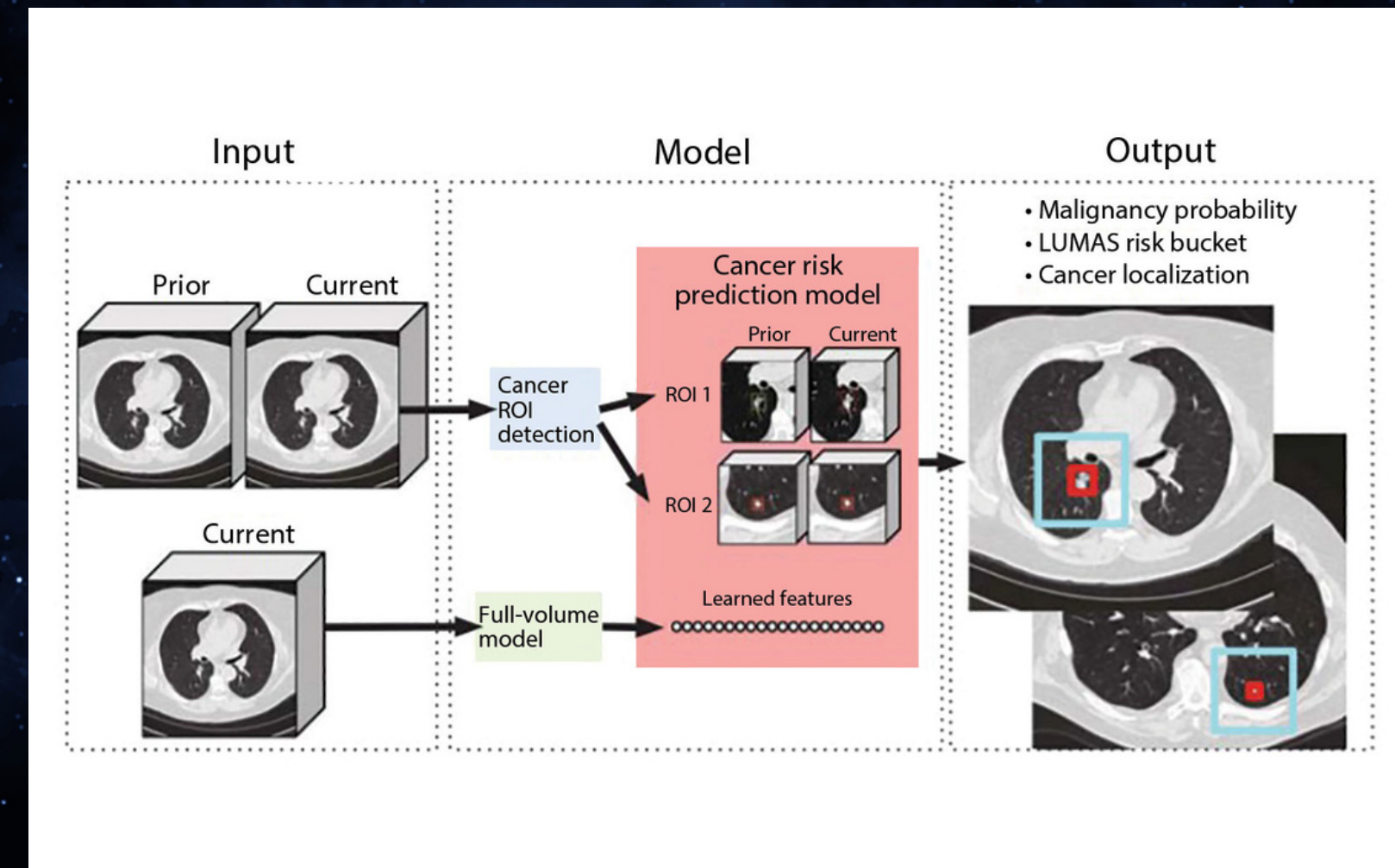
MEDTECH AND PROGRAMMING

Do not feel like you are limited to just physical and mechanical products in MedTech. You are also highly encouraged to use your computer science knowledge and combine programming with the medical field.

WHAT CAN I DO?

Really, the possibilities are endless.

- Research Projects
- Enter competitions
- Create apps to help your community
- You can learn any programming language you feel is best, and you'll receive help.
- Pitch ideas and projects to industry pros

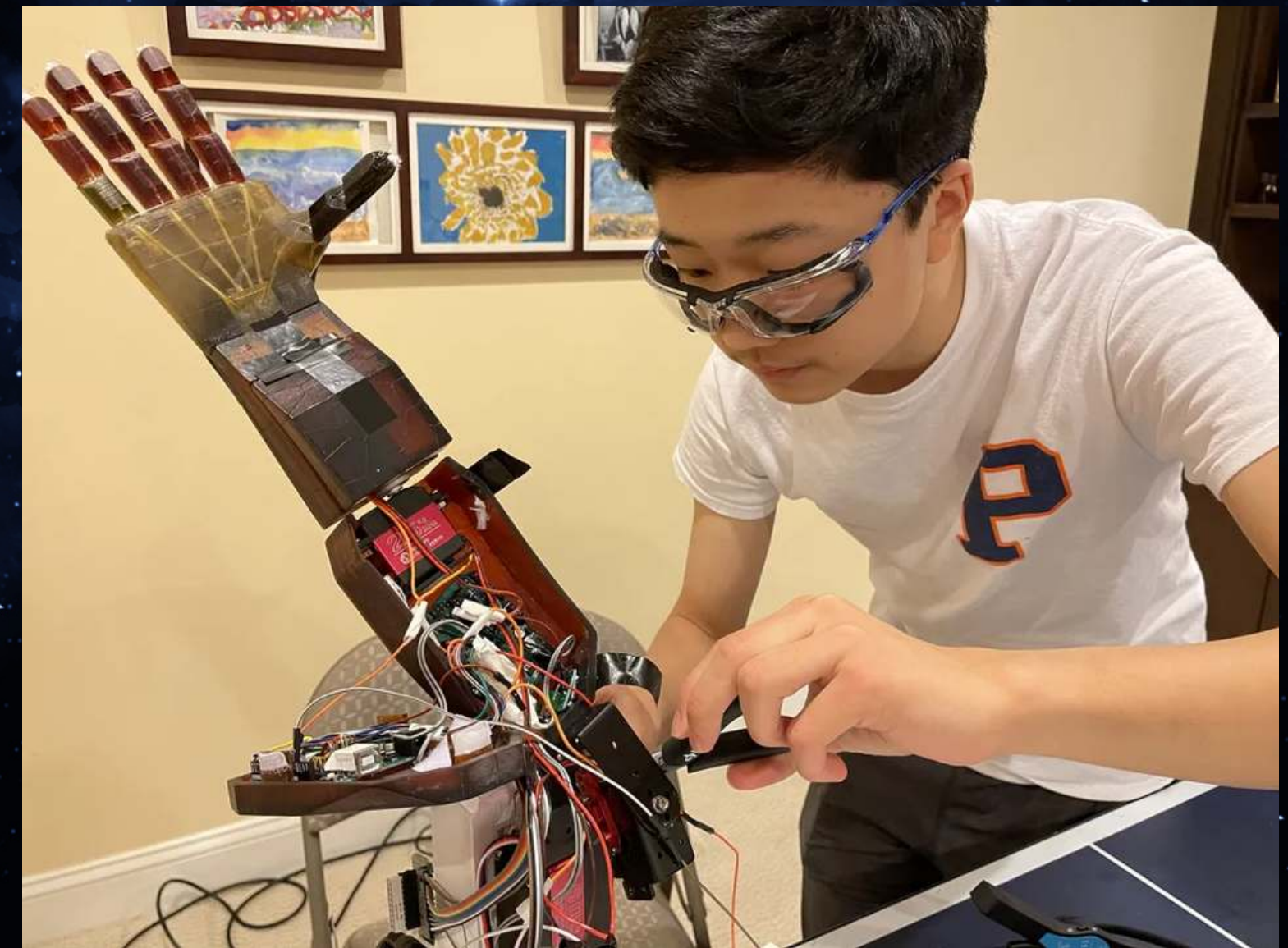


WHAT IF I'M NOT A CODER YET, BUT I WANT TO BE?

If you want to work in the programming side of med tech, but don't have any coding experience, our team can help you program in the languages Java and Python as well as provide high quality no code app builders for those who are ultra beginners.

EXAMPLES

- Create an app to more efficiently bill insurance companies by having your app assign specific codes to different aspects of patient healthcare.
- You could create an AI that takes messy doctor notes and translates it into meaningful notes.
- Work with the MedTech CAD department to create the software for a prosthetic.
- If you choose to program, you are expected to be at an intermediate level in your programming language of choice. However help in Java and Python will be provided.



COMPETITIONS

A lot of the competitions in MedTech are going to be science fairs and coding related competitions.

- For 16 y/o and above – The Imagine Cup by Microsoft; \$100000 for the top team or individual
- Student Swift Challenge – Uses Apple's Swift language
- DECA – for students that monetize their app or software
- Certified Coding Associate (CCA): This certification is offered by the American Health Information Management Association (AHIMA). It is a good entry-level certification for medical coders. The CCA exam does not require a high school diploma, but you do need to complete a training program and pass the exam.



BUSINESS

BUSINESS

This is a business/entrepreneurship class where you will have you create and run your own business. we will cover everything from finding a manufacturer to creating a website. our goal for you is that by the end of this class, you will have a business of your own that you can continually make money from. there will be competitions where you will have opportunities to go to and pitch your ideas to real-life judges these competitions can result in money and other prizes for your company to keep growing.

important:

you can't make money without spending money so you have to be willing to put around 50+ dollars into your business to see returns.

BUISNESS

Finding your business

choose what you want to sell if you do not already know

Branding

how to make your company reconizable

Finance

how to orgnize your money .

Marketing

the basics of marketing online and inperson.

Ecommerce

we will be making a site and start selling

Pitching

how to publicly speak about your business

JUNIOR ACHIEVEMENT



SOFTWARE

SOFTWARE STOCKS

The SoftwareStocks branch integrates market patterns of real-world industries with computer science. In other words, students can practice their interests in financial activities and programming.

WHAT WILL STUDENTS LEARN?

The SoftwareStocks avenue educates students on the financial analysis of software industries, portfolio management, and even the fundamentals of investing. In terms of computer science, students gain proficiency in programming languages like Python through start-up project competitions. This branch even expands on the understanding of emerging technologies that provide investment opportunities.



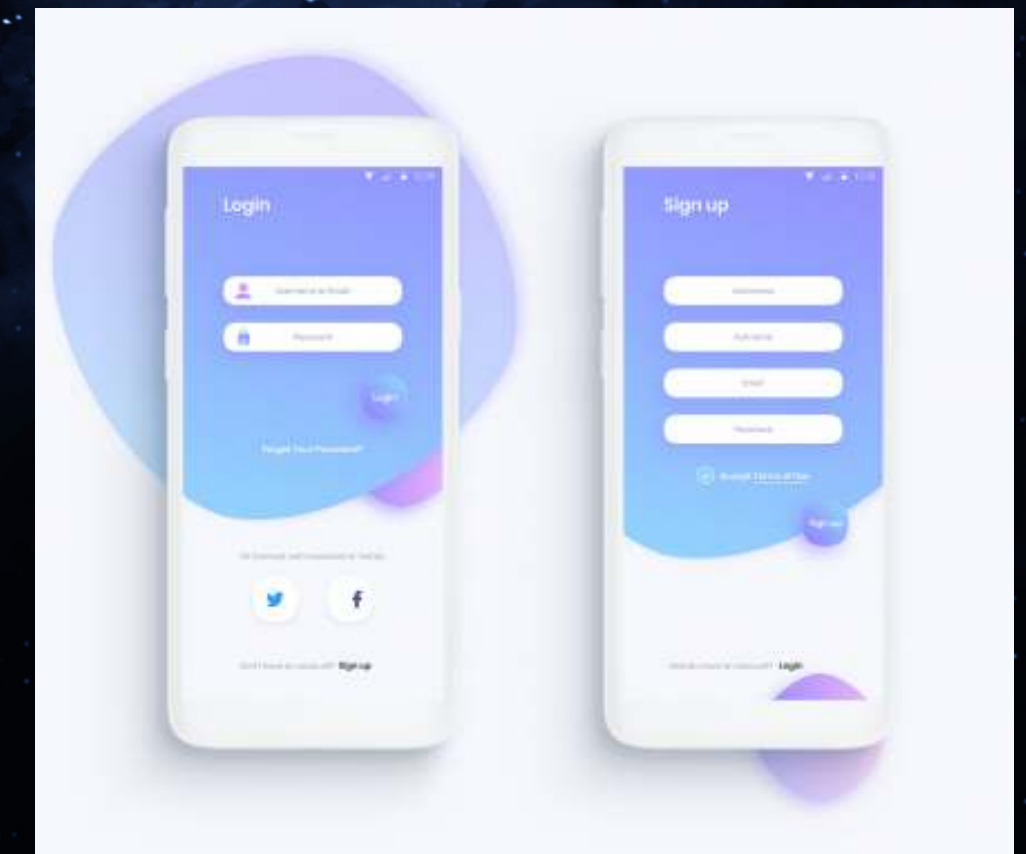
GM TK
GAME
JAM 2022
15.7 - 17.7.

A row of five logos at the bottom of the event poster. From left to right: Baltic Explorers (a globe icon), European Union (the flag), Interreg Central Baltic (a stylized 'i' icon), Start Hub (a white square with black text), and igda Lahti (a yellow and red circular icon).

EXAMPLES

These are just some of the activities:

- The Stock Market Game
- Software-related workshops and seminars
- Video Game/App Design Challenges
- Wharton Global Youth Investment Challenge
- GMTK Game Jam 2024

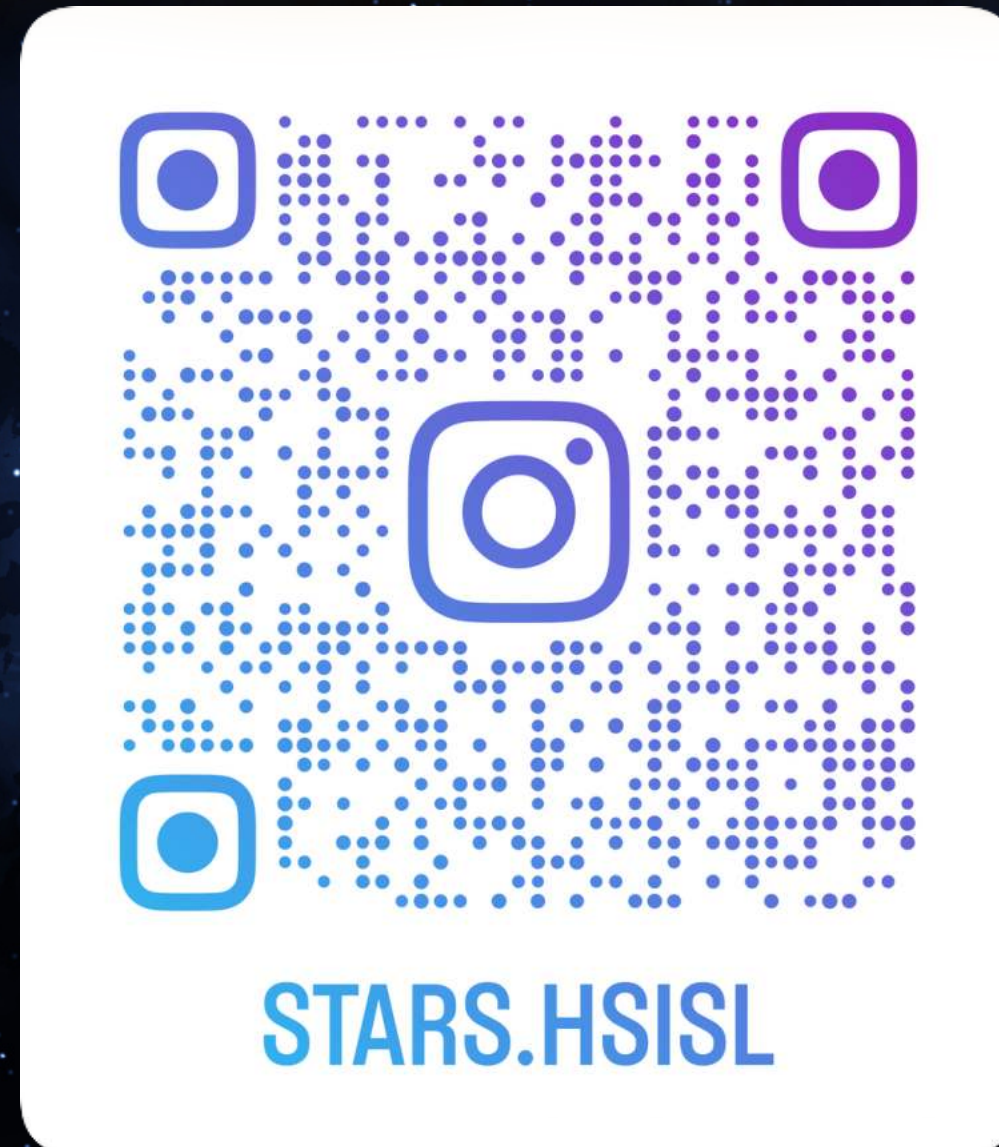


WHARTON
GLOBAL HIGH SCHOOL
INVESTMENT COMPETITION

HOW CAN I JOIN?

FOLLOW!

DON'T FORGET TO FOLLOW OUR INSTAGRAM AT:



THANK YOU!!



STARS

SCIENTIFIC TECHNOLOGY AND ACADEMIC RESEARCH
SOCIETY