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December 2023

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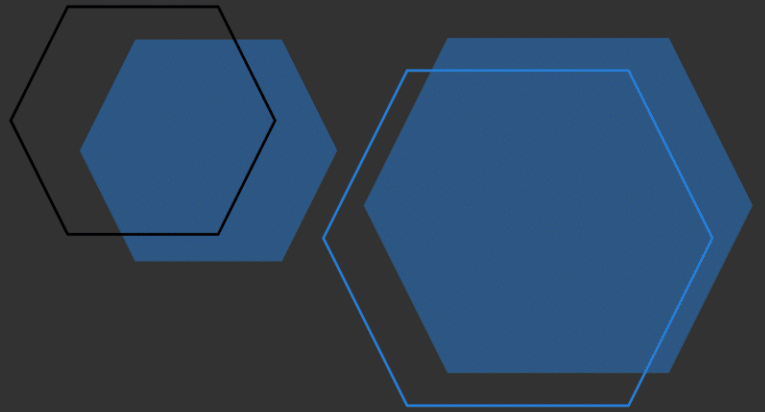
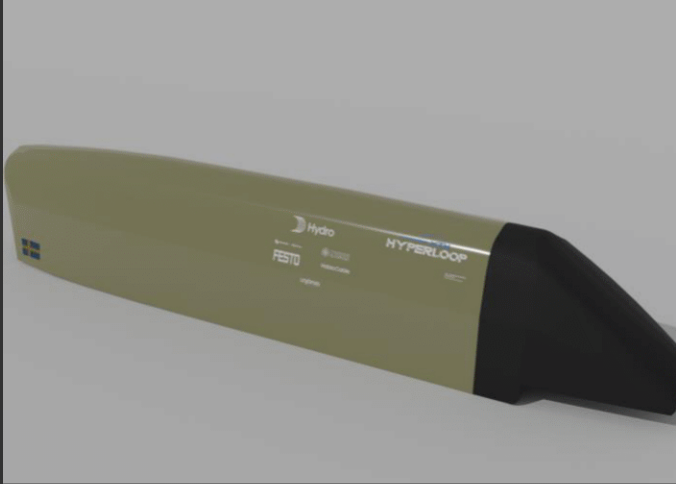
Dear reader,

Welcome to the 2<sup>nd</sup> edition of the KTH Hyperloop newsletter! We are a group of students who are passionate about the future of transportation and want to share our knowledge and enthusiasm with you. In this newsletter, you will find updates on our projects, events, and achievements, as well as some fun facts and trivia about Hyperloop. We hope you enjoy reading it and feel free to contact us if you have any questions or feedback.

# 🔧 BEHIND THE SCENES IN THE LAB 🛠️

## THE SHELL WAS NOT MADE OVERNIGHT

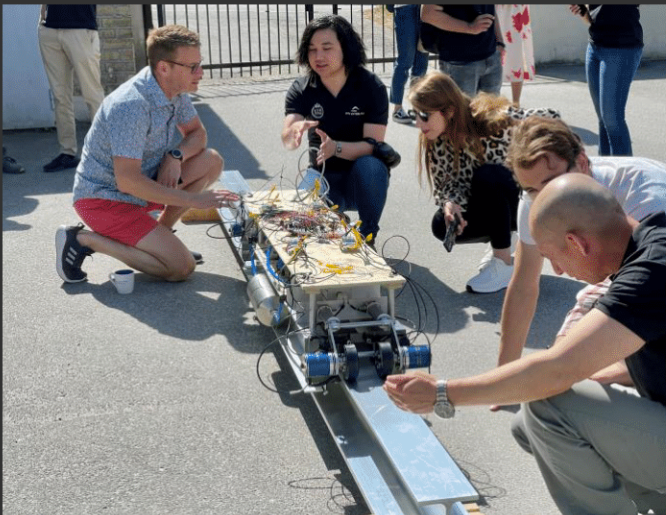
We are thrilled to share with you the progress we have made on our hyperloop prototype since the beginning of the year. Our goal was to create a sleek and sturdy pod that would contain the essential electrical components of our innovative system. After many trials and errors, we finally came up with a 3D model that met our specifications and expectations. We teamed up with Vaxholm Komposits, a leading company in fibre glass production, to turn our model into reality. With their expertise and our dedication, we crafted the pod's shell using a mould and joined the front and the back parts together. The result was amazing!



## 1ST WORKING POD PROTOTYPE

### WORKING WITH PNEUMATICS

We have made significant strides in our efforts to develop a functional prototype. In 2023, our approach involved utilizing pneumatics as a foundation to initiate the project before integrating linear induction motors. This strategy has allowed us to establish a solid groundwork and gradually incorporate advanced technology, ensuring a systematic and efficient progression towards a successful Hyperloop prototype.





Michael



Leo



Alex



## MEET OUR TEAM CAPTAINS

This month, we shine the spotlight on our team captains, Michael and Leo. They are the dedicated and passionate leaders of our association. We also wish to thank our former Team captain, Alex, for his contributions to the team. Their commitment to our club has been instrumental in our achievements this year.

Learn more about their journey and vision for the future in our exclusive interviews with them. The interviews can be accessed on our official website.

## EUROPEAN HYPERLOOP WEEK

ZÜRICH HERE WE COME!

European Hyperloop Week brings together enthusiasts, innovators, and industry professionals for an exciting and pioneering event. The week-long gathering showcases the latest advancements in Hyperloop technology and served as a platform for collaboration and knowledge exchange. Participants can witness demonstrations of functioning prototypes, engage in interactive panel discussions, and attend informative workshops. With a focus on sustainability, efficiency, and high-speed transportation, the European Hyperloop Week provides valuable insights and inspiration for the future of Hyperloop development.





# PROJECT LINE-UP

## MECHANICAL TEAM PROJECTS

- ❖ Brake and suspension upgrades
- ❖ Test track design and fabrication
- ❖ Test pod development

## ELECTRICAL TEAM PROJECTS

- ❖ PCB upgrades and Arduino code optimization
- ❖ Development of a Battery Management System (BMS)

## CONCEPT AND SCALABILITY TEAM

- ❖ Research paper on Integrating Cargo Hyperloop in Scandinavia

# JOIN US AT KTH HYPERLOOP

## HOW TO GET INVOLVED

Are you excited about the future of transportation and want to be a part of our journey? Do you dream of revolutionizing the way we travel? Look no further! KTH Hyperloop is a community of students, engineers, and enthusiasts dedicated to exploring the potential of hyperloop technology. Our mission is to foster creativity, learning, and collaboration in the pursuit of making hyperloop a reality.

Joining the loop is easy!

Visit our club website!



KTH Hyperloop

ITRL, Drottning Kristinas väg

114 28, Stockholm, Sweden

Kthhyperloop.se | hyperloop@kth.se