Max van ‘t Hart

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Education

MSc **TU Delft**, High-Tech Engineering
Delft, Netherlands
2022 – present

BSc **TU Delft**, Mechanical Engineering
Delft, Netherlands
2022 – 2026

- Completed a Robotics minor, including the design and development of the "Mason" autonomous jointing robot
- Completed my graduation project at the Cognitive Robotics department, developing a lab-cleanup robot based on the MIRTE Master Platform

BSc **TU Delft**, Applied Physics
Delft, Netherlands
2021 – 2022

- Started in Applied Physics before switching to Mechanical Engineering

VWO **RSG Broklede**, Nature & Technology
Breukelen, Netherlands
2015 – 2021

- N&T subject package with Economics and Nature, Life and Technology (NLT)
- Completed my VWO graduation project by designing and building a functional railgun

Experience

RoBoHouse, Lead Mechanical Engineer
Delft, Netherlands
June 2025 – Dec 2025
7 months

- Led the mechanical engineering work within the multidisciplinary in-house SUSAG project
- Designed, developed, and manufactured a fully functional unmanned ground vehicle (UGV)

Picnic, Delivery Driver
Utrecht, Netherlands
Feb 2021 – Aug 2023
2 years 7 months

- Delivered groceries in and around Utrecht
- Gained extensive driving and customer-service experience

Notary Office, Employee
Maarssen, Netherlands
May 2022 – Aug 2022
4 months

- Assisted with the processing of sensitive information

Albert Heijn, Store Employee
Maarssen, Netherlands
Dec 2018 – present
7 years 9 months

- Worked for several years in the fruit and vegetable department
- Regularly assisted customers with questions and product requests

Projects

Custom High-Performance E-Bikes
2021 – present

- Designed and built custom e-bikes for myself and family members
- Developed skills in soldering, CAD, programming, 3D printing, and bicycle mechanics
- Progressed from simple off-the-shelf electronics to systems based on the open-source VESC platform

Mason
2024 – 2025

- Developed a robotic system for SMB Geveltechniek with a team of six students during a Robotics minor
- Robot was designed to scan brick walls using a stereo camera, apply jointing material, and clean the wall afterwards
- Responsible for designing and producing most of the robot’s movement systems

GreenRocket 2025 – 2025

- Built a seed-planting robot with four other students for the Boskalis Hackathon hosted by the TU Delft Robotics Student Association
- The project won the hackathon

PijpMasterPro6000 2025 – 2025

- Designed and built a pipe-navigating robot with four other students for the Underground Robotics Hackathon hosted by the TU Delft Robotics Student Association
- The team placed second in the hackathon

Custom Lightweight Gaming Mice 2024 – present

- Designed custom modification kits that convert existing gaming mice into lightweight high-performance designs
- Started as a personal project and developed into selling modification kits online

Custom Car Audio System 2025 – 2025

- Built a custom sound system for a car together with my brother
- Reverse engineered existing components and designed custom parts to install larger speakers in the original locations

Railgun 2021 – 2021

- Built a functioning railgun with another student as a VWO final project
- Used an approximately 450 V high-voltage capacitor bank and electromagnetic acceleration
- Designed and programmed supporting electronics using Arduino and later ESP32 hardware

Awards

Boskalis Hackathon Winner Jan 2025

- Built the winning GreenRocket seed-planting robot with a team of students

Certified SOLIDWORKS Professional (CSWP) Jan 2024

Green Award Jan 2023

- Awarded for incorporating topology optimization into the team's first-year engineering project

Skills

CAD: SOLIDWORKS, Certified SOLIDWORKS Professional (CSWP)

Prototyping: 3D printing, soldering, mechanical assembly

Programming: Python

Engineering: Mechanical design, electronics, rapid prototyping

Interests

Engineering: Robotics, mechanical design, electronics, 3D printing

Automotive: Cars, bicycles, vehicle technology

Technology: Computers and gaming hardware