



VOLVO TRUCKS

Volvo Group Trucks Operations

(Mack Trucks)

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COSC 380

VOLVO
Group Trucks Operations

Disclaimer!

Mack and Volvo GTO are the same company!



Where

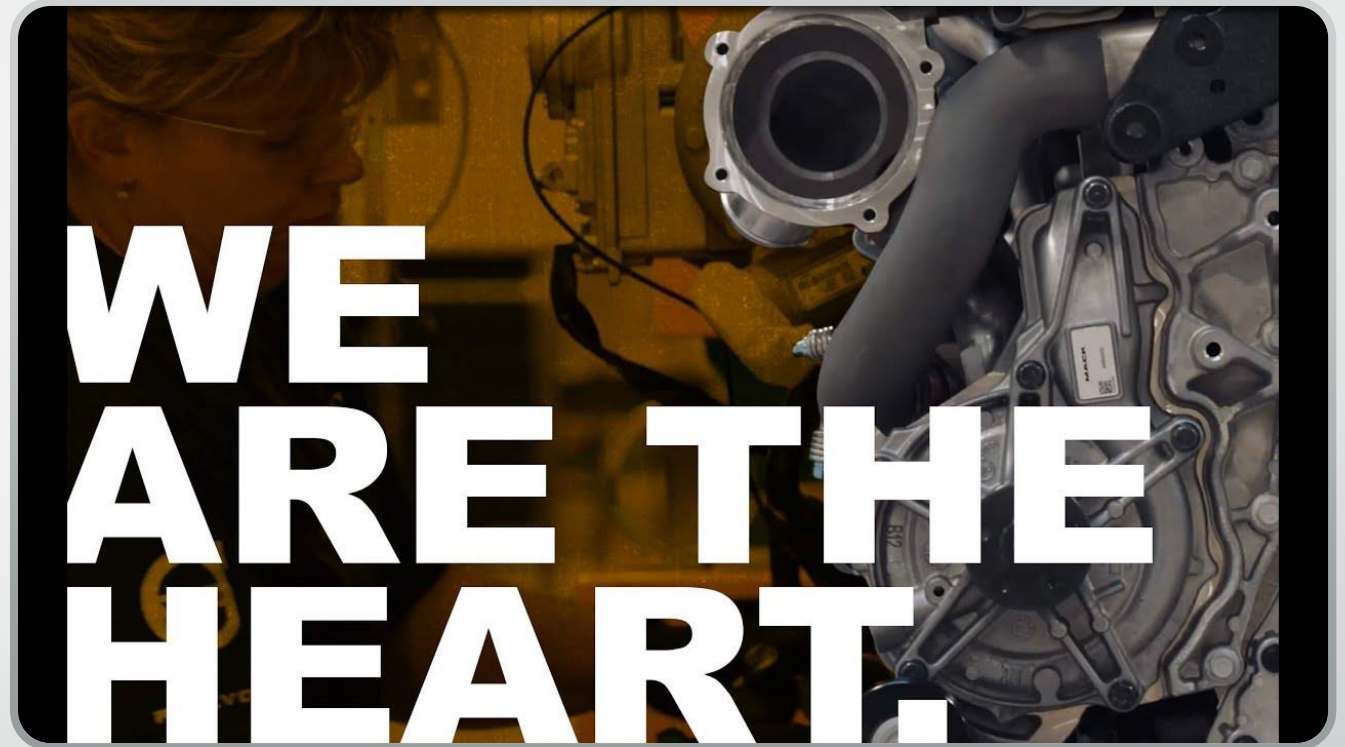
- Volvo GTO's Hagerstown Plant
- Originally built by Mack Trucks in 1961 in Hagerstown for proximity to both I-81 and I-70
- Volvo GTO bought out Mack in 2011 and took ownership of the plant
- 1.5 million square feet
- Volvo Group Trucks Operations Has four Powertrain plants in the world. The other three are in Köping and Skövde, Sweden, and Curitiba, Brazil
- Hagerstown is the only Powertrain plant in North America



Volvo GTO: HAG
The Hagerstown Powertrain Plant

What We Do

- Build powertrain components for Volvo, Mack and Prevest Trucks
- Those include: Diesel engines, AMT (transmissions), axles and electric garbage truck engines
- Rest of the truck is built in Macungie, PA and New River Valley, VA
- Every single Mack or Volvo Truck you see on the road in America had the powertrain built in Hagerstown!



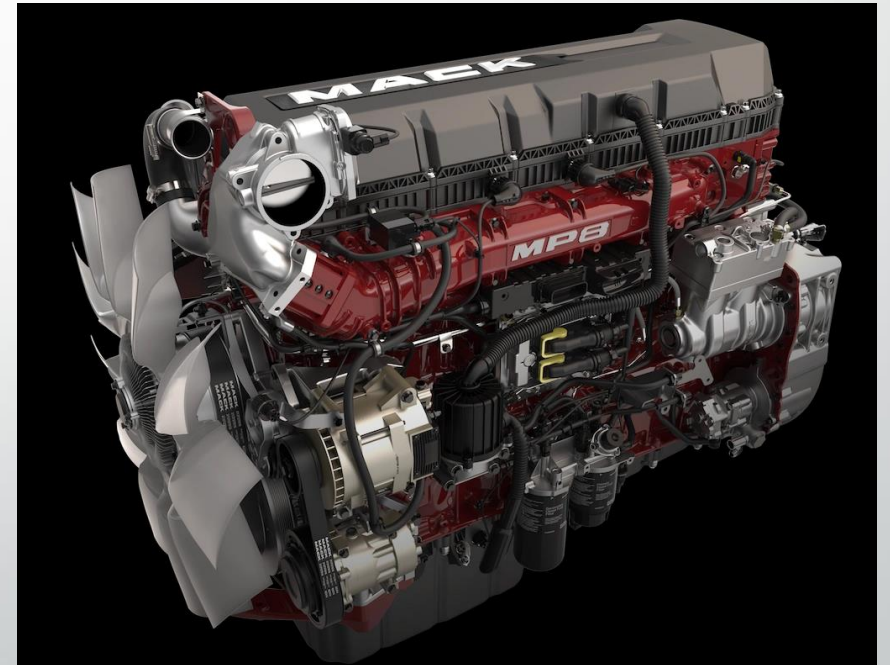
"We are the Heart" is HAG's catchphrase

What I Did

- Software Intern: Digitalization
- Primarily worked in HR, but did jobs all over the plant
- One main project, but many small projects along with it
- Mentors said: “Your internship is your playground”
- Worked alongside white collar, but made plenty of friends and had lots of interactions with blue collar
- Learned and experienced from almost every department in the plant



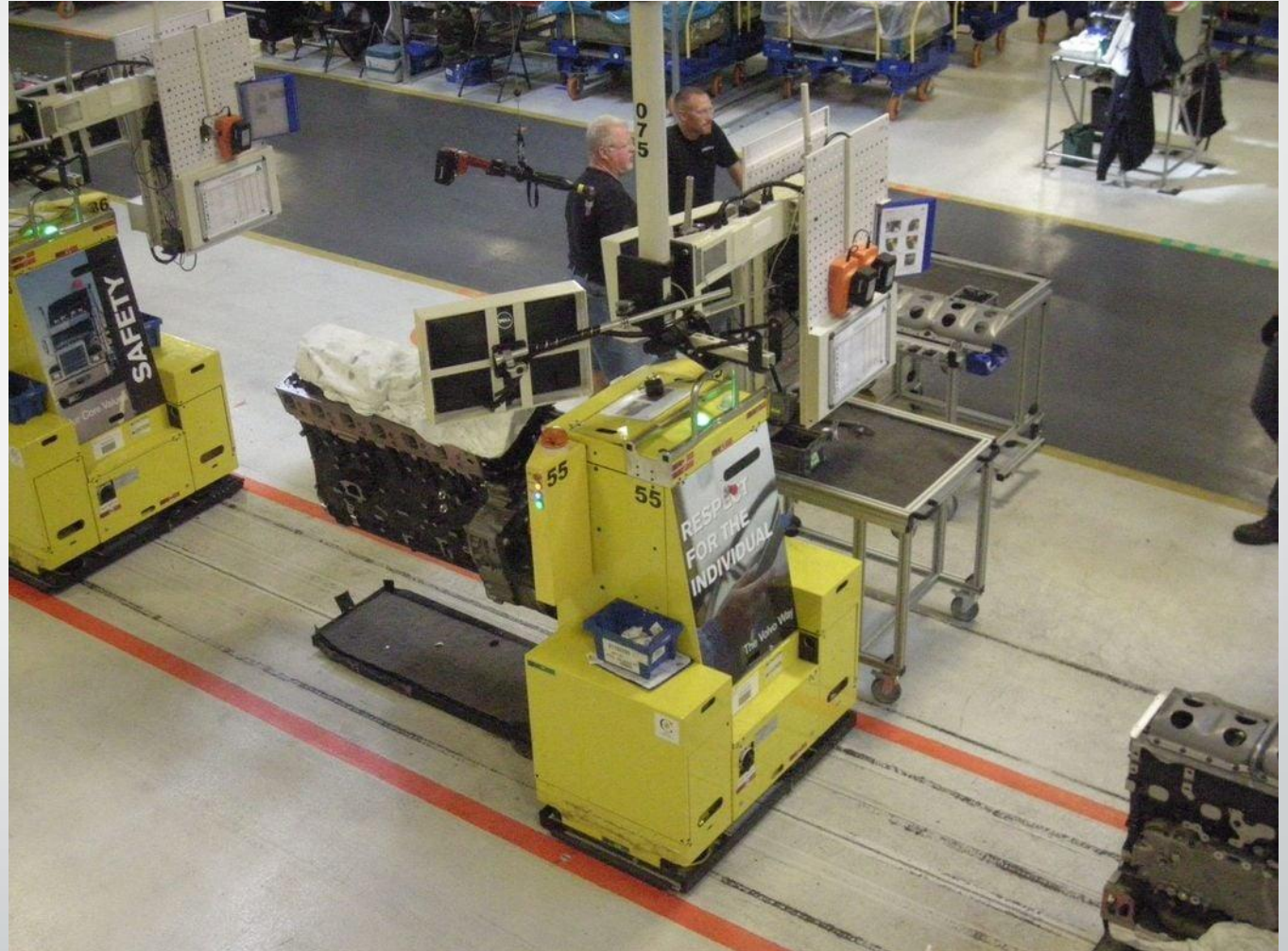
2022 Volvo VNL



**Mack MP8: 13.0 Liter I6 Diesel Engine
505 Horsepower
1,850 ft/lb Torque (2,508 Newton Meter)**

What I Hope for in the Future

- To be hired full time at Volvo GTO: HAG
- Hopefully can work in IT or Engineering in a more hands on role
- Spending more time in a role that involves production and automation on assembly line vs. writing code in the offices
- Volvo offers any employee to relocate to any of their plants anywhere in the world every few years. This allows employees to travel the world. However, I would like to stay in Hagerstown as my family lives there



Autonomous Guided Vehicles (AGV) driving around plant floor with partially assembled motor. These vehicles are used in place of conveyors to allow engineers more flexibility in assembly line processes

Takeaways from Internship, Conclusion

- Volvo GTO Values Soft Skills: communication, teamwork, interactions with others
- Hard skills such as technical knowledge are learned on the job, but soft skills are harder to be taught
- Show up every day with a mindset that you will succeed, or at the very least, learn something new
- Do not be afraid of failure, it is a part of learning and becoming better at what you do



**Most of the GTO interns, I was the only Computer Science Major
The rest were Manufacturing and Mechanical Engineering**