About me | Vivaan Kothari

- Junior in Mechanical Engineering @ UW Seattle with a minor in Business Administration.
- Mechanical Engineering Intern at Autev, Inc.
- Arm-Subsystem Engineer at Husky Robotics.
- Engineering Development Intern at Mahindra & Mahindra Automotive Ltd.
- Passionate about building & designing mechanical systems. Excited to apply hands-on design and fabrication.

Areas of interest

Robotics and mechatronics.

Integration with other technical teams such as (electrical, software, business).

Prototyping & Iterative design.

Familiar with Solidworks & Onshape.

Mechanical Engineering Intern - Autev, Inc (EV Charging startup)

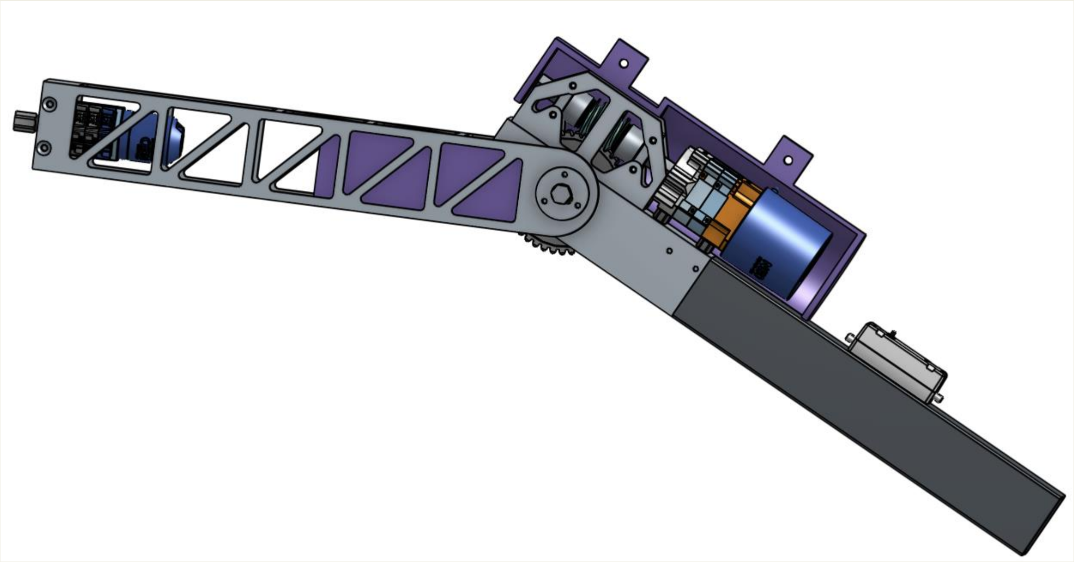
- Designed the **end effector** for the Mach- 2 EV mobile charging robot using Onshape, improving alignment precision by 15% and advancing CAD and design iteration skills.
- Prototyped and tested robotic assemblies using **Bambu Lab X1 Carbon & P1S Printers**, cutting iteration time by 30% and building expertise in **rapid prototyping workflows**.
- Conducted **system testing and live demos of the Mach 2 robot** in preparation for the auto showcase, strengthening abilities in **validation, troubleshooting, and technical presentation**.

Research Assistant – Novosselov Research Group (NRG Lab)

- Assisted in the **design of the HALT (Hydrothermal Alkaline Treatment) reactor**, developing skills in **reactor engineering and system design.**
- Conducted **HALT and HFC experiments** to degrade PFAS “forever chemicals,” gaining experience in **environmental remediation and high-pressure systems.**
- Installed and validated the **Syringe Pump 260D**, strengthening abilities in **instrumentation, process control, and lab safety**.

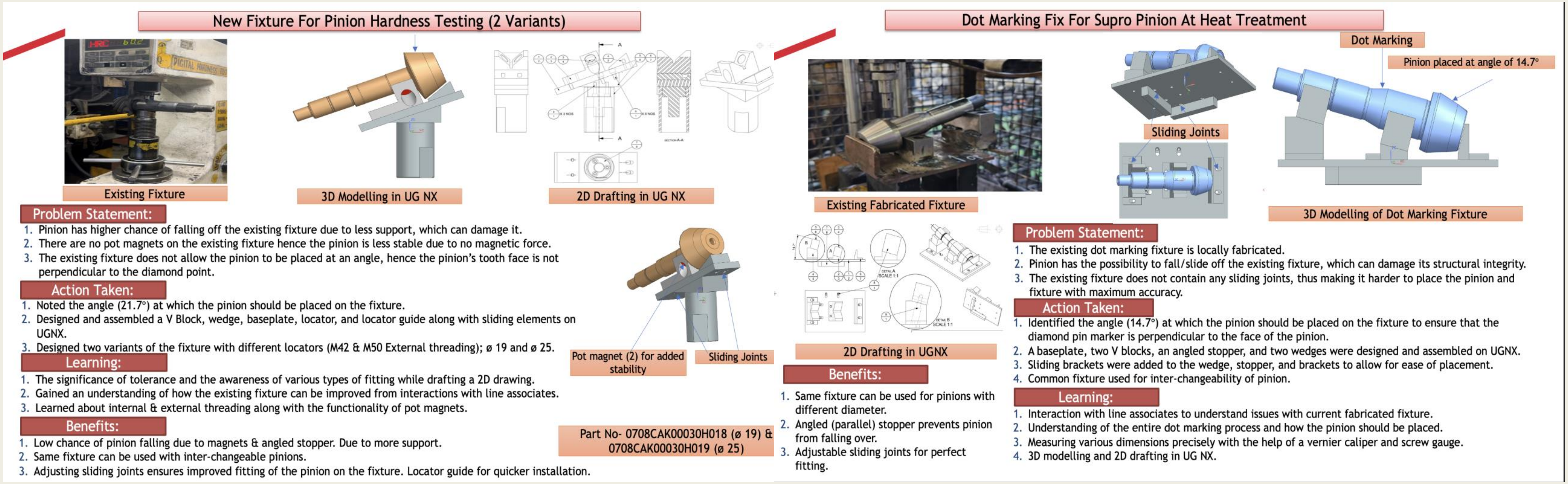
UW Husky Robotics - Arm subsystem Engineer

- Building precision mechanics (using Onshape) for a Mars rover.
- Design and fabrication of worm driven shoulders, elbow linages.
- Familiar with Lathe, mill, and 3D printing.
- Collaborative design reviews & multi-subsystem integration.

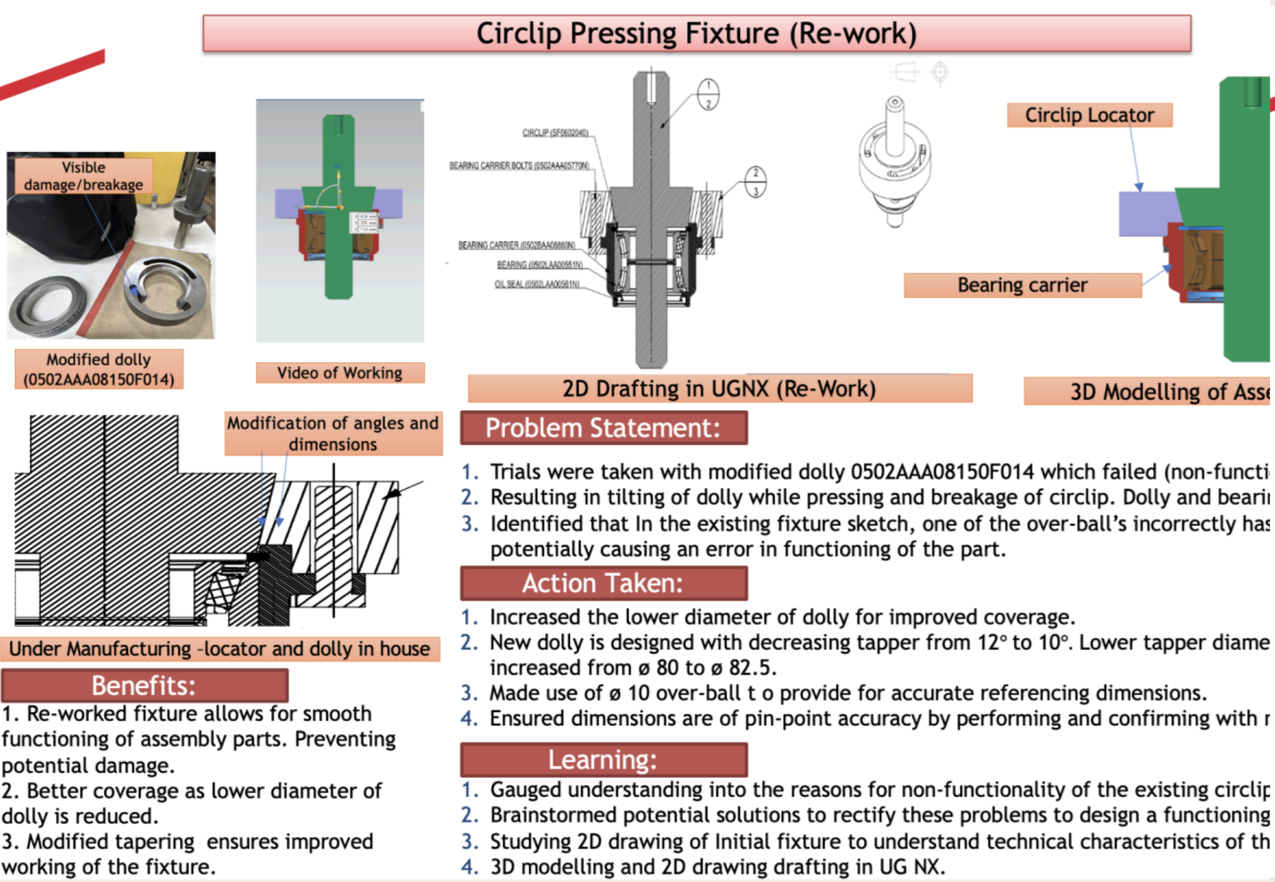


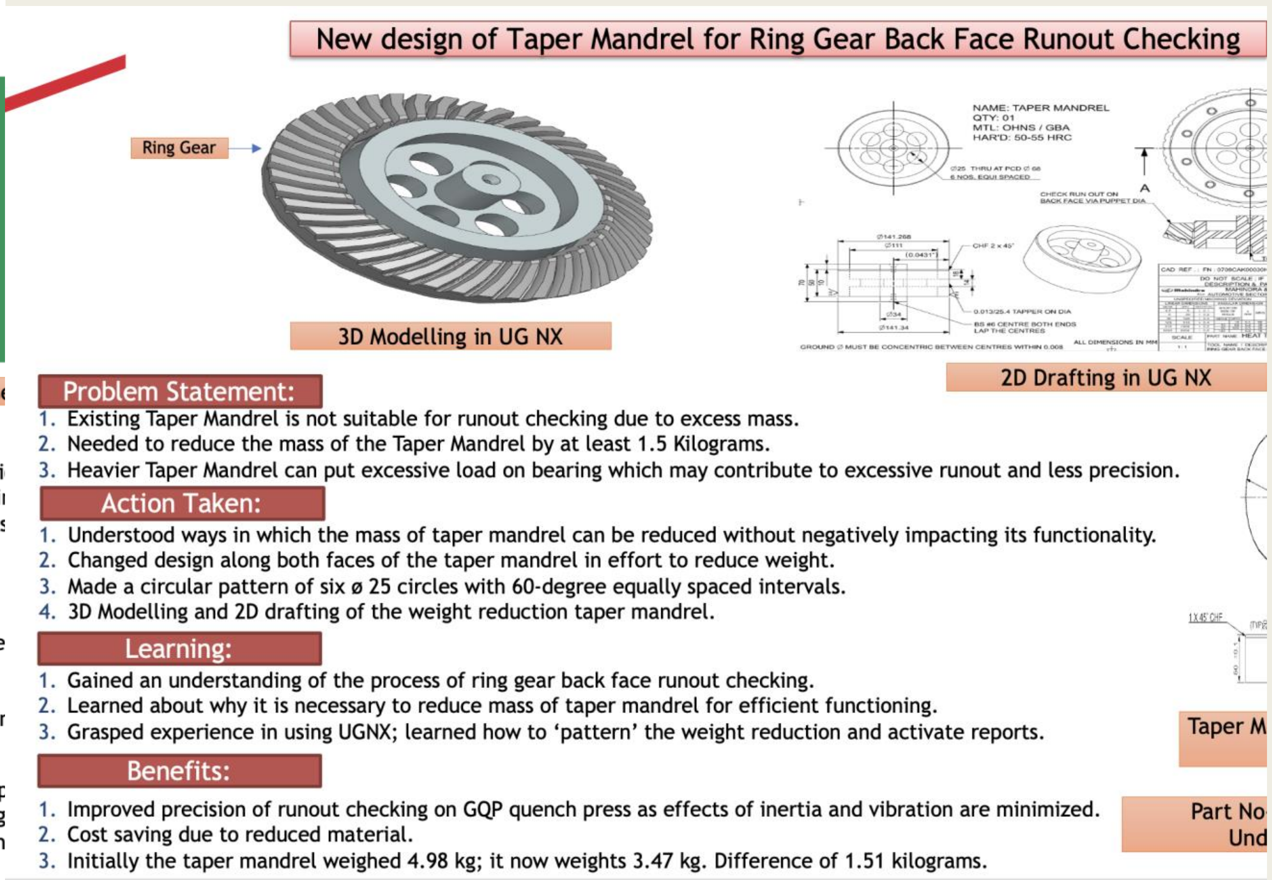
Engineering Development Intern – Mahindra & Mahindra Ltd (Automotive)

- Designed a hardness testing fixture for hypoid pinion.
- Created steering checking gauge for Bolero Pickup Truck.
- Optimized a circlip pressing fixture.
- Siemens –NX.
- 2D-drafting.



ENGINEERING DEVELOPMENT INTERN – MAHINDRA & MAHINDRA LTD (2)





ENGINEERING DEVELOPMENT INTERN – MAHINDRA & MAHINDRA LTD (3)