

MATT RYCHTARCZYK ("RIH-TAAR-CHIK")

(224)-531-8037

mrychтарыk123@gmail.com

<http://b.link/mrychтары>

[linkedin.com/in/mrychтары](https://www.linkedin.com/in/mrychтары)

Education:

Illinois Institute of Technology, Chicago, IL

08/2015 - 05/2020

Master of Engineering in Mechanical and Aerospace Engineering

GPA 3.3/4.0

Bachelor of Science in Mechanical Engineering

- **Courses:** Advanced Thermodynamics, Fluid Mechanics, Automotive Powertrains, Control Systems, Statics, Dynamics, FEA, Failure Analysis, Combustion
- **Projects:** Developed an affordable service for engineers to build accurate models estimating steel structure life (Dean's Choice Award); Designed, analyzed, and fabricated prototypes for automatic can crusher and beverage cooler, autonomous bio-inspired robot, and robotic arm to assist in muscle related injury recovery
- **Achievements:** Dean's List (2015, 2017, 2018), Horatio Alger Illinois Scholar 2015

Experience:

Supplier Quality Technician

04/2020 - Present

Plexus, Buffalo Grove, IL

- Analyzed engineering drawings for critical features and created inspection criteria
- Reviewed documentation from Plexus suppliers and input into TipQA and Agile systems
- Contacted suppliers and buyers to correct paperwork issues
- Reduced inspection backlogs by actively training to review shipments for different projects

Powertrain Calibrations Intern

05/2019 – 08/2019

Robert Bosch, Broadview, IL

- Constructed automated scripts to reduce ECU function testing time by 30% and generate immediate post analysis of data
- Created documentation for scripts and software to assist in further development of the project
- Built wiring harnesses and updated calibration functions for pressure and temperature sensors

Process Engineering Intern

05/2018 – 08/2018

Ford Motor Company, Chicago, IL

- Collaborated with tooling engineers to save \$2000/week in maintenance costs
- Generated reports to reduce production line breakdowns by 10%
- Coordinate with various managers to demonstrate and install drive motor monitoring system
- Designed and 3D printed tool covers that were 80% cheaper than what was in use

Additional:

Restoration and track prep – 1993 Turbo Mazda Miata

- Cut, formed, and welded new sections for rusted body panels
- Installed adjustable coilover suspension, aftermarket sway bars, chassis braces, polyurethane bushings, and adjusted alignment, ride height, and dampening to improve handling
- Participated in autocross and track events to develop driving skills
- Built motor, installed turbocharger, and learned to tune with aftermarket ECU/sensors
- Future: Design aerodynamic kit and further chassis strengthening to maximize grip at high speeds

Skills:

- Autodesk Inventor, Solidworks, CREO, ANSYS, FEA, Microsoft Office, LaTeX, MATLAB, Arduino
- Troubleshooting, repairing mechanical and computer systems, metal forming, arc and TIG welding
- Bilingual in conversational Polish and English
- Lean Six Sigma White Belt Certification

Interests/Hobbies: metal and polymer fabrication, welding, automotive racing, DIY home renovation, fitness