

Curriculum Vitae of Yaron Adar

Dutch Pronunciation: [Jah-roon Aa-daar]

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Born: January 18, 1992

Nationalities: American, Dutch, Israeli

Work Experience

Yaron R. Adar – Freelance 2019 - Present

Mechanical Design Engineer

Design development, drafting, and documentation on a project basis. Machine design, product development.

Delmic, Microscope Development Project

Responsible for the development of optomechanical modules from concept to detailed design for an innovative SEM microscope.

- Integrated mechanical, optical, and metrological functions through optomechanical tolerance & performance analyses to meet nanometer-, micrometer-precision requirements.
- Produced component specifications and drawings using geometric dimensioning and tolerancing.

Stryker Instruments, Suction Medical Device Acquisition

Developed a post-market design history file for an electromechanical vacuum-suction medical device.

- Produced design inputs/outputs (DIOVV), failure modes (FMECA), architectural requirements, and other documents to the customer's corporate & regulatory (FDA, EU MDR) requirements.
- Assessed, remediated existing specification and testing documentation to meet corporate and regulatory (FDA, EU MDR) requirements.

Stryker Instruments – Kalamazoo, Michigan, USA 2016 - 2019

Design Engineer (Mechanical)

Post-market development of innovative Orthopaedic surgical instruments and operating room equipment for a large international manufacturer.

- Responsible for continuous improvement and remediation of medical instrument designs.
- Design support of Manufacturing (internal processes, external suppliers, manufacturing transfers), Quality Control, Supplier Sourcing, Regulatory Compliance, and Marketing activities.
- Wide range of mechanical & statistical analyses, product performance testing, risk management, and root cause investigation.

University of Rochester Baja SAE Design Team – Rochester, NY, USA 2011 - 2016

Member, Project Team Leader

Designed and built competitive off-road vehicles with a diverse student team.

- Developed innovative parts and manufacturing processes in strictly budgeted development cycles.
- Gained Design for Manufacturability knowledge alongside machining and manual fabrication skills.
- Developed excellent teamwork and organizational abilities to develop a complex system.

Optimus Prosthetics – Dayton, Ohio, USA 2014 (3 Months)

Engineering Intern

With the Clinical Manager and manufacturing laboratory, developed a limb prosthesis fitting tool that integrated CAD & CAM of High-Fidelity™ sockets into existing clinical processes.

WFU Center for Injury Biomechanics – Winston-Salem, NC, USA 2013 (4 Months)

Undergraduate Intern

Assisted the Orthopedics Laboratory’s research of surgical specimen mechanical properties and exercise biomechanics. Design of MRI-compatible equipment and modelling of MRI scans.

Education & Certifications

University of Rochester 2011-2016

B.S. in Biomedical Engineering, Concentration in Biomechanics, received May 2016

Minor in Computer Science, Cluster in Dance Improvisation

- 166 Degree Credit Hours (approx. 277 ECTS credits) plus 36 Business Credit Hours
- GPA of 3.3/4.0
- Kauffman Entrepreneurial Year Scholar, 2015-2016

Coursework: Statics & Dynamics, Solid & Fluid Mechanics, Thermodynamics; Circuits, Signal Processing; Mechanical Design, Biomedical Design; Statistics; Materials; Engineering Computing.

New York State E.I.T. July 2016

FE Mechanical passed, ID# 1664206

Hobbies & Activities

Developing my balcony garden

Turning junk into fun electromechanical contraptions

Learning Dutch

Key Skills & Competencies

Languages Spoken: English (native), Spanish

- Developing design requirements and concepts.
- Prototyping and statistical test verification.
- Mechanical analysis of structures & mechanism.
- Knowledge of metals, polymers, composites.
- Design for Manufacturability (machining, metal & polymer molding, rapid prototyping).
- Product and process failure mode analysis.
- CAD: Drafting with GD&T, 3D Modelling (SolidWorks, PTC Creo, Siemens NX).
- Laboratory research/testing.
- Familiarity with regulated industries and quality management systems.
- Teamwork with diverse teams and Professionals (Business, Research, Medical, Manufacturing).
- Programming skills in multiple languages.
- Technical writing including reports, manuals, and protocols.
- Presenting orally to different audience types.
- Meeting deadlines for simultaneous activities.
- Planning, leading product development projects.

References Available Upon Request