

Almog Biton

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Education

- 2020-Present Ph.D., Nuclear Engineering Department, Ben Gurion University.
Thesis subject: "Study of threshold velocity in a corrugated vertical channel counter-current flow", (Direct continuance from M.Sc.)
- 1995-1997 M.Sc., Nuclear Engineering Department, Ben Gurion University.
Thesis subject: "Study of threshold velocity in a corrugated vertical channel counter-current flow"
- 1990-1995 B. Sc., Mecanical Engineering Department, S.C.E College.

Employment

- 2018-present Researcher and development at Nuclear Research Center Negev (NRCN).

Nuclear reactor systems investigation, multidisciplinary literature survey, systems development, experimental systems design include validation and verification, experimental plans, result analysis, research and development report writing.
- 2017-2018 Operating engineer at NRCN reactor.

Self studying of reactor systems include reactor physics, thermohydraulic, mechanic systems, electricity systems, control systems, reactor operating. Partner of: investigate of different phenomenons at operating systems, process optimization, new opoating methods development, instructions and regulation writing, experimental plans and result analysis, research and development report writing.
- 2015-2017 Maintenance engineer at NRCN reactor.

Reactor support systems development, engineering projects leading and management, engineering and development report writing.
- 2012-2015 Mechanical systems design at NRCN reactor.

Mechanical design for reactor systems, design solutions for different reactor systems.
- 2010-2012 Mechanical maintenance technician.

Maintenance and treatment of main reactor systems, technical report writing.
- 2003-2010 Senior F-15 aircraft technician at Israeli Air Force.

Maintenance and treatment of main aircraft systems, implementation of technical and engineering instructions in aircrafts, partner of experiments at new systems in aircrafts.

Awards and Honors

- 2016 Efficient Awards, " Implementation of Drive Mechanism for Neutron Emitting Source Used for Monitoring Reactor Neutron Flux and for Core Startup".

Academic Activities

Review of scientific publications:

1. A. Biton, Y.Soffer, R. Freud, "Safety Improvement of IRR2 by Increasing Robustness of Equipment to Ground Acceleration", The 28th conference of the Nuclear Societies in Israel, April 2016.
2. Almog Biton, Yakov Soffer, Roy Freud, "Safety Improvement to Israel Research Reactor 2 by Increasing the Robustness of Equipment to Ground Acceleration", "Nuclear Engineering and Radiation Science", ASME, Vol. 3/030915.
3. Y. Shaposhnik, A. Biton, Y. soffer, R. Freud, "Implementation of Drive Mechanism for Neutron Emitting Source Used for Monitoring Reactor Neutron Flux and for Core Startup", The 28th conference of the Nuclear Societies in Israel, April 2016.
4. Almog Biton, Evgany Rabinovich, Roy Freud, Erez Gilad, "Experimental Study of Flooding Phenomenon in Vertical Annular Smooth and Corrugated Channels". NURETH-18 (Nuclear Research Thermo Hydraulic), The 18th Conference, Portland U.S.A, 18-23 August 2019.

Educational Activities

Courses taught

1. 2016 – 2019 - Outside lecture, "Mechanical design by Solid Works software", Mecanical engineering department, S.C.E College, Beer Sheva, Israel.
2. 2016 – 2019 – Lecturer assistant, " Engineering graphic", Mecanical engineering department, S.C.E College, Beer Sheva, Israel.
3. 2012 – 2015 - Outside lecture, "Mechanical design by Solid Works software", Mecanical department, T.C.B Engineering College, Beer Sheva, Israel.
4. 2012 – 2015 - Lecturer assistant, "Material strength", Mecanical department, T.C.B Engineering College, Beer Sheva, Israel.