Klein Daniel - Curriculum Vitae

ID: 011475431 **Nationalities**: Israeli

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Education

Institute	Period	Field of Study
Ph.D. Technion, Haifa	2004-2010	Ph.D. in Mechanical Engineering. Dissertation: "The Influence of Actuation in the Flow of a Jet on the Wall Jet Heat Transfer Coefficient". Supervisors: Prof. Gad Hetsroni.
M.Sc. Technion, Haifa	2001-2003	M.Sc. in Mechanical Engineering. Research topic: "Heat Transfer in Micro-Channels in the Presence of Surface-Active Agents ", Ph.D. Thesis. Supervisors: Prof. Gad Hetsroni.
B.Sc. Technion, Haifa	2001-1997	B.Sc. in Mechanical Engineering, Cum Laude Certificates of excellence – Dean and President Lists

Professional Experience

Company	Period	Description
RAFAEL – Heat and Mass Transfer Division	2008-present	Thermal analysis and design of systems and high heat flux and temperature enduring structures, typical to super- and hypersonic flights. Specialization in experiments, analysis and development of aerodynamically heated structures protected by ablative materials.
PulsaCool Ltd. (Start-Up Comp.)	2007	Thermal head researcher. Simulations, thermal designs and experiments of a Laptop closed loop cooling system. Setup, experiments and validation of cooling system based on solid/liquid and liquid/air Thermo Electric Cooler based heat exchanger.

Multiphase Flow Laboratory, Mechanical Engineering Faculty, Technion	2004 -2007	Thermal consulting and temperature measurements of electronic components using non-destructing electro optic method (IR-Radiometry). Analysis of micro-channels and micro-jets based cooling methods for high-power RF components. Analysis of flow fields and temperatures using Computational Fluid Dynamics software.
Mechanical Engineering Faculty, Technion	2001 -2007	Teaching Assistant of several courses: • "Heat Transfer" - Leading TA • "Cooling of electronic components" – TA • "Experimental Methods" – Leading TA
Multiphase Flow Laboratory, Technion	2000-2001	Research assistant, setup of an micro-channels based cooling experimental array
DUMA OPTRONICS, Nesher	1999-2000	Mechanical Engineer. Design of optical measurement systems. Setup of an experimental system, supporting product development phase

Awards

Winner of Miriam and Aaron Gutwirth excellence scholarship (2006).

Leading TA and Outstanding TA award, Technion (2005).

Certificate of excellence from the Bureau of Engineers for the thesis "Measurement system for a shaft rotation angle" (2001).