

Name	B.Sc.Projects Alumni in AUT-PRL	year
1- Arash Kermanpour 2- S.M.B Rezazad	R&D on a laser Target tracker	1993-94
3- Afshin Navvabi 4- Hooman Dadresan	R&D on an Atmospheric laser Transeiver	1993-94
5- Razieh Sadeghi 6- Robabeh Kalanaki	Simulation of optical processors	1994
7- Roya Mashaei	Simulation of an optical E.O.Modulator	1994
8- Davood Gharavian 9- M.R. Khalili Tehrani	R&D on Helmet Telerobots	1994-95
10- Hossein Shahi 11- Amir Jafarzadeh	R&D on a laser Scanner	1994-95
12- S.A.Gorjizad	Laser thickness meter	1995
13- M.R.Mahjoob	Optical Wattmeter	1995
14- Farhad Taghizadeh	Eye pupil Controlled Laser Scanner	1996-95
15- Roksana Golizadeh	R&D on an I.R.Transceiver	1996
16- Yazdan Mohammad Beigi 17- S.J.Jafari Toosi	R&D on a Slide Scanner	1997
18- Jafar PoorRostam 19- Hamid Ebrahimzad	R&D on laser hearing of Conversation	2000
20- A.M.Yadegari	R&D on laser Thickness meter	2000
21- Mohsen Keshavarz Akhlaghi	R&D Full-Duplex Fiber-optic computer communication	2000
22- Mehran Nooshin	R&D on 30-MHz APD optical Receiver	2000
23- Jafar Javadian Cheshmeh	Optical isolator	2000
24- Kamran Soori	Magneto-Optic Modulator	2000
25- Reza Fareghbal Khameneh	Electro-Optic Modulator	2000
26- Fatemeh Khajepiri	R&D on an optical wattmeter	2001
27- Masood Rohham	R&D on Ultrasonic Direction Finder	2001
28- Hossein Tajalli	R&D On Ball packer Robot	2002
29- Reza Farivar	R&D on a 5 cm mini Robot	2002
30- Behnood Ghohroodi Ghamsari	Optical Broad casing System	2002
31- Arvin Emadi 32- Hossein Najafi	R&D on Active Noise Canceller	2003
33- Mehdi Hassani Keleshtari	Simulation of Transient Steady- state 4-Layer YAG lasers	2003
34- Hamid Hadgian	R&D on short Range optical Range finder	2003

35- M.A.Akhaie		
36- Omid Vasebi	R&D on Temperature Transmitter	2004
37- Motahareh Armin	Simulation of periodic DBF filters	2004
38- Hossein Mashad nemati	R&D on a 3-Voice Channel WDM Free space LED Transceiver	2004
39- Araz Rismani	Theoretical Analysis of er-doped Fiber Amplifier	2004
40- Ehsan S.A.Naeini	R&D on pumping and Cavity of a solid-state laser	2004
41- A.H.Alibeigi		
42- H.R.Vafaei	R&D on an Electronic lock system using Bar Code Reader	2005
43- Mohsen Maleki	R&D on optical object Finder	2005
44- Ehsan Rokhsat yazdi	Light Follower mini-Robot	2005
45- Mehdi Maleki pirbazari	Ultrasonic laser hearing of Conversation	2006
46- H.R.Azadi	R&D on E.O.Modulator	2006
47- Gholamreza Ghorbani	H.V.Power supply for I.R.lamp	2006
48- S.N.Hosseininejad	Temperature Control of Crystal growth chamber	2006
49- S.I.Taghavi	R&D of LED array projector	2006
50- Fatemeh Fallahi Vishkaei	Wave analysis of Single-Slit LEDs	2006
51- Vahid Bahrami Yekta	R&D of AVR based temperature controller	2007
52- Alireza Bonakdar	R&D of 2-Channels TDM Fiber Transceiver	2007
53- Tarannom Rajaie	Wave analysis of DFB tunable lasers	2007
54- Fatemeh Mozaffari Shamsi	Simulation of Raman amplification in Germano-Silicate fiber	2007
55- Mohammad Afshar	R&D of T.V. fiber Optic transceiver	2007
56- Mohammad Hossein- naghavi	R&D of 2-Channels WDM fiber transceiver	2008
57- Farhad Rafrat	Design & Development of 8-channels Encoded Remote Control	2008
58- Hassan Rahbardar Mojaver	Design & Development of Michaelson sound photodetector	2009
59- Shabnam Ghaffar zadegan	Simulation of Persian alphanumeric hybrid optical processor	2009
60- Masoud Farhadi	Virtual optical Keyboard image processing	2009

61- Elham Amiri	Reverse Engineering of I.C.'s lay-out internal Blocks	2010
62- Hossein Davoodi	Nervous cell modeling using Memristors	2010
63- Nima Namvar	Wave Analysis and simulation of Stimulated Brillouin Scattering Optical Phenomenon	2010
64- Mehdi Sharifian Najafabadi	Design of a Solar cell based Power generator Module	2011
65- Mehrad AhmadPour Syyar	Design of a low group velocity Photonic Crystal waveguide using PWE method	2011
66- Mojtaba Nazari Ahangarkolaei	Wave Analysis of Optical Phase Conjugation phenomenon using	2011

	Four-Wave Mixing	
67- Mohammad Masoud	Design and Development of an Electronic Driver Circuit for Photo-Multiplier Lamp	2012
68 – Samaneh Ramrudi	Development of a Software for Gesture Recognition	2013
69 – Morteza Hassanpour	Design and Development of a Chameleon Optical Mimetic System	2013
70 – Behdad Barahimi	Design and Development of a Smart LED Array White Light Generation System	2013
71 – Hamed Ghodsi	Simulation and Physical Parameter's improvement of HBT Transistors for Increasing frequency Bandwidth of an Integrated Opto-Electronic Mixer	2013
72 – Elaheh Rastegar Pashaki	Simulation and Physical Parameter's improvement of HBT Transistors for Increasing Amplification Coefficient of an Integrated Opto-Electronic Mixer	2013
73 – Foad Nikookar	Design and Development of an Electronic system for Eye(Pupil) motion Detection	2013
74 – Erfan Sheikhi	Design and Implemetation of a Laser Alignment System	2013
75 – Maryam Sadat Khatami	A Study on LIDARs and Feasibility study for model development of Atmospheric Clutters	2013
76 – Shahryar Mohebbi	Wave Analysis of Silicon Raman Laser	2014
77 - Arash Tebyani	Analysis and Simulation of a Semiconductor Hetero-Structure Photo-Detector for Better Responsivity	2014
78 – Mohammad Hossein Rahimian	Object Classification using Random Forest and Regular Shape Recognition using Hough Transform Methods	2014
79 - Ahmad Bazzaz	Wave Analysis and Simulation of Behavior of a PiN Mach-Zehnder Optical Modulator	2014
80 – Mohammad-Amin Dehghani	Analysis and Simulation of Carbon Nano-Tube Terahertz Antenna	2014
81 – Shayan Saeidi	Structural Analysis of Germanium Lasers for Technical Characteristics Improvement	2015
82 – Mohammad Mehdi Shirazi	Design and Development of a 50 meters Laser Range-Finder	2015
83 – Azin Ghasemi	Effects of Rotation and Magnification on Alphanumeric images pattern recognition using Fourier Optics Technic	2016

84 – Arezoo Bagheri	Noise cancellation on Alphanumeric images pattern recognition using Fourier Optics Technic	2016
85 – Keivan Farhang Razi	Study and Simulation of Technical Characteristics of an Optoelectronic Mixer in Microwave band	2016
86 – Alireza Jorkesh	Structural Analysis for Temperature Dependence of Technical parameters of a Germanium Laser	2016
87 – Elahe Ansari	Design and Development of a laser object-finder using Microcontroller and stepper motor	2016

Name	M.Sc.Projects Alumni in AUT-PRL	year
1- Ali Rostami	Analysis of Stimulated Brillouin Scattering Phenomenan	1994
2- Shervin Goodarzi	Analysis of phase Comugation in Four-wave Mixing Phenomenon	1994
3- Amirhamed Majedi	Design & Simulation of Vander lught Spatial Filter	1997
4- Hamidreza Chaharmir	Design & Development of Vander lught Spatial Filter	1997
5- Siavash Asrari	Analysis of Stimulated Raman Scattering Phenomenon	1997
6- Behzad Ebrahimi (guest student)	Simulation of ultra-fast laser ablation of soft tissue (Joint M.Sc. project with Physics Dept. of Sharif University of Technology)	2001
7- Saeid Mozaffari	CMOS Photo-receiver I.C. layout	2002
8- AliAkbar Vahedi Zarch	Design & Development of a 10 meter Laser Range finder	2002
9- Hossein Nazarboland jahromi	Software development for linear optical Communication systems	2002
10- Moharram Alizadeh	Design & Development of a hybrid optical processor	2002
11- Hossein Mardanpour	Simulation of ultra-fast double-pulsed laser ablation of soft issue. (Joint M.Sc. project with Physics Dept. of Sharif University of Technology)	2003
12- Mohsen Keshavarz Akhlaghi	Design & Development of free-space 10Mbps optical link	2003
13- Ahmad Ajarzadeh Oskouei	Analysis of Quantum light memory in atomic systems	2004
14- Hamid Pahlevaninejad	Design & Development of a voice-Data 4-channel FPGA Controlled line of sight atmospheric link	2005
15- Behnood Ghohroodi Ghamsari	Design & Development of a non-line of sight short Range optical link	2005
16- Sina Mehrabadi	Quantum light memory in solids Using EIT	2006
17- Mehdi Hassani Keleshtari (guest student)	Analysis and simulation of simultaneous S.R.S. and S.B.S. using Vlasov-Maxwell equation (Joint M.Sc. project with Razi University)	2006
18- Mostafa Keshavarz Moazzam	Analysis and Simulation of an optical Wavelength Converter SOA-DFB-SOA	2006
19- Mohammadreza Khorasaninejad	Analysis and simulation of an all-optical amplification by S.R.S. in silicon waveguide	2007
20- Hamid Hassanzadeh Khakmardani	Analysis and simulation of a 2-D semiconductor photonic Crystal laser	2007
21- Seyed Iman Taghavi	Analysis and modeling of Transistor laser	2008
22- Hadi Dehghani Nayeri	simulation and Analysis of integrated HBT Opto-Electronic Mixer	2008

23- Vahid Bahrami Yekta	Analysis, Simulation and Improvement of Uncooled MQW (Multiple Quantum Well) Semiconductor Lasers with high temperature resistance	2010
24- Shaghayegh Foghani	Analysis and Design of a Photonic Crystal Beam Splitter	2010
25- Hossein Shokri Kojori	Analysis and Simulation of an All-Optical Slow Light Delay Line to Improve Performances	2011
26- Abdolber Mallah Livani	Analysis and Simulation of high speed (100GHz)travelling wave Photo-Detector for Characteristics Improvement	2011
27- Majid Ferdosian	Analysis and Simulation for Characteristics Improvement in Slow Light Generation in Solids	2011
28- Hassan Rahbardar Mojaver	Analysis,simulation and performance- improvement of Transistor Lasers	2011
29- Hamed Ahmadi	Analysis,simulation and performance- improvement of all-optical logic gates based on FWM in a SOA	2011
30- Sadreddin Behjati Ardakani	Analysis,Simulation and structural improvement of a Quantum Dot Single Photon Source	2011
31- Elham Javadi	Analysis, Simulation and Characteristics Improvement of a Microwave Amplifier, with HBT physical structural parameters change	2012
32- Mohammad Sedghi	Analysis, Simulation and Technical Characteristics Improvement of Semiconductor All-Optical Memory	2012
33- Mohsen Shahriari	Analysis, Simulation and Technical Characteristics Improvement of Semiconductor Slow Light Device Using E.I.T. Method	2012
34- Hossein Davoodi	Analysis, Simulation and Technical Characteristics Improvement of a High-Speed Si-Ge HBT	2012
35 – Mohammadreza Farjadian	Analysis, Simulation and Parameters Improvement of Long Wavelength Transistor Lasers	2013
36 – Elnaz Pilehvar	Design, Simulation and Crosstalk Reduction of Photonic Crystal Optical Waveguides	2013
37 – Leila Sadat Rahimifard	Analysis, Simulation and Characteristics Improvement of a Slow Light device, using Photonic Crystal Waveguide method	2014
38 – BehZad Hakkari	Simulation and Opto-Electronic Characteristic Improvement of Quantum-Well Transistor Laser in U.V. Band	2014

39 – Reza Kohandani	Analysis, Simulation and Technical Characteristics Improvement of Semiconductor Slow Light Devices with Quantum-Well Structure	2014
40 – HamidReza Khashei	Simulation and Parameters Improvement of Optical Sampler Section of ADC	2014
41- Hamed Ghodsi	Analysis, Simulation and Technical Characteristic Improvement of a Si-Ge-HBT for a Terahertz Wave Detector	2015
42- Mohammad Amin Ghomashi	Analysis and Methods Suggestion for Improving Optical Nonlinear Properties in Photonic-Crystal Switches	2016
43- Faranak Heidari	Design of an Optical-Digital Hybrid Processor for Face Recognition using Optical Filtering	2016
44- Bahram Choupanzadeh	Analysis, Simulation and improve of Slow Light device Technical Characteristics in a Quantum Dot Semiconductor structure	2017
45- Seyed Mohammad Hosseini	Modeling of Transistor Laser (T.L.) with Graded Base Nano-Structure	2017

Name	Ph.D.Thesis Alumni in AUT-PRL	year
1- Hassan Kaatuzian	Photonic Treatment of Refraction and Polarization Phenomena	1994
2- Ali Rostami	Squeezed States of Quantum Light	1998
3- Ali Akbar Wahedy Zarch	A Nano-Quantum Photonics model for Justification of Phase matching in SHG Phenomenon	2008
4- Mohammad Danaie	Design, Simulation and suggestion of a nonlinear logic Photonic Crystal structure for realization of All-Optical processors	2012
5- Seyed Iman Taghavi	Analysis and Modeling of Multiple Quantum-Well Transistor Laser	2013
6- Ahmad Naseri Taheri	Analysis, Simulation and Improvement of Optical Switch Based on Plasmonic Phenomenon	2015
7- Abdolber Mallah Livani	Design, Analysis and Simulation of Surface Plasmon Amplifiers using Schottky Junction	2016
8- Mostafa Keshavarz Moazzam	Design, Analysis and Modeling of a switching Core for Plasmonic Router	2016

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