MOHAMMAD F. OBEID, Ph.D.

Modeling, Simulation, and Visualization Engineering Dep.
Frank Batten College of Engineering and Technology
Old Dominion University - Norfolk, Virginia 23529

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Status: US Citizen

POSITIONS

01/2018 – Present **Adjunct Assistant Professor**
Modeling, Simulation and Visualization Engineering Department
Old Dominion University – Norfolk, VA

08/2017 – 12/2017 **Instructor of Record**
Modeling, Simulation and Visualization Engineering Department
Old Dominion University – Norfolk, VA

01/2012 – 12/2017 **Graduate Research Assistant**
Modeling, Simulation and Visualization Engineering Department
Old Dominion University – Norfolk, VA

08/2012 – 08/2017 **Graduate Teaching Assistant**
Modeling, Simulation and Visualization Engineering Department
Old Dominion University – Norfolk, VA

03/2010 - 09/2010 **Intern**
Supply Chain Department - Value Added Services
Beiersdorf A.G.
Hamburg – Germany

EDUCATION

08/2013 – 12/2017 **Doctor of Philosophy**, Modeling and Simulation Engineering
Dissertation: "*Development and Validation of a Hybrid Virtual/Physical Nuss Procedure Surgical Trainer*"
Modeling, Simulation and Visualization Engineering Department
Old Dominion University – Norfolk, VA

01/2012 – 5/2013 **Master of Science**, Modeling and Simulation Engineering
Thesis: "*A Multi-Configuration Display Methodology Incorporating Reflection for Real-Time Haptic-Interactive Virtual Environments*"
Modeling, Simulation and Visualization Engineering Department
Old Dominion University – Norfolk, VA

09/2006 – 06/2011 **Bachelor of Science**, Industrial Engineering
Thesis: "*Utilizing Lean Principles for Changeover Time Reduction at Hikma Pharmaceuticals*"
Industrial Engineering Department
German-Jordanian University – Amman, Jordan

10/2009 – 03/2010   **Bachelor of Engineering (Exchange Semester)**, Industrial Engineering and Management (Wirtschaftsingenieurwesen)
Magdeburg-Stendal Applied University – Germany

RELATED COURSEWORK

Simulation Fundamentals	Game Development	Statics and Dynamics
Principles of Visualization	Human Factors Psychology	Quality Control
Advanced M&S Analysis	Advanced Operations Research	Facilities Layout
Discrete Event Simulation	Instrumentation & Measurements	Lean Manufacturing
Systems Architecture	Motion and Time Study	Production Planning
Model Engineering	Safety and Ergonomics	Product Development
Simulation Formalisms	Control Systems	Supply Chain Management
Synthetic Environments	Materials Science	Project Management
Object Oriented Programming	Thermodynamics	Strategic Planning
Cluster Parallel Computing	Manufacturing Processes	Engineering Economics

TEACHING EXPERIENCE

01/2018 – Present   **Instructor of Record**
MSIM 410/510 – Model Engineering

01/2018 – Present   **Instructor of Record**
ECE 410/510 – Model Engineering

08/2017 – Present   **Instructor of Record**
MSIM 111 - Information Literacy and Research for Modeling and Simulation Engineers

01/2018 – Present   **Course Developer**
ENGN 110 - Explore Engineering and Technology

09/2015 – 05/2017   **Teaching Assistant**
ENGN 110 - Explore Engineering and Technology (Frederic D. McKenzie, Ph.D.)

01/2017   **Guest Lecturer**
MSIM 508 - Introduction to Game Development (Yuzhong Shen, Ph.D.)

01/2013 – 05/2017   **Teaching Assistant**
MSIM 111 - Information Literacy and Research for Modeling and Simulation Engineers (Ahmed Noor, Ph.D.)

01/2016 – 05/2016   **Teaching Assistant**
MSIM 111 - Information Literacy and Research for Modeling and Simulation Engineers (Bharat Madan, Ph.D.)

08/2014 – 12/2014   **Teaching Assistant**
ENGN 110 - Explore Engineering and Technology (Yuzhong Shen, Ph.D.)

08/2012 – 05/2014   **Teaching Assistant**
ENGN 110 - Explore Engineering and Technology (Ahmed Noor, Ph.D.)

02/2013   **Guest Lecturer**
MSIM 508 - Introduction to Game Development (Yuzhong Shen, Ph.D.)

RESEARCH PROJECTS

07/2017 – Present   *" Monitoring Therapy for Chest Wall Deformity: Replacing X-rays with a Safer, Inexpensive, Faster and More Accurate Alternative"*
PIs – Frederic McKenzie, Ph.D. and Robert E. Kelly, MD
ODU and Children's Hospital of The King's Daughters - Norfolk, VA

06/2014 – Present   *"An Instrument for Objective Measurement of Non-Surgical Treatments for Chest Wall Deformities"*
PIs – Frederic McKenzie, Ph.D. and Robert E. Kelly, MD
ODU and Children's Hospital of The King's Daughters - Norfolk, VA

09/2013 – 12/2017   *"Development of the Nuss Procedure Hybrid Virtual/Physical Surgical Trainer"*
PI – Frederic McKenzie, Ph.D.
Modeling, Simulation, and Visualization Engineering Department
Old Dominion University - Norfolk, VA

06/2012 – 12/2015   *"Development of the Nuss Procedure Manikin Trainer"*
PI – Frederic McKenzie, Ph.D.
Modeling, Simulation, and Visualization Engineering Department
Old Dominion University - Norfolk, VA

09/2012 – 05/2015   *"Development of the Nuss Procedure Virtual Surgical Planner"*
PI – Frederic McKenzie, Ph.D.
Modeling, Simulation, and Visualization Engineering Department
Old Dominion University - Norfolk, VA

01/2012 – 06/2013   *"Simulation and Education in Evergreen-Agriculture Decision-making for Subsistence Farmers"*
PI – Frederic McKenzie, Ph.D.
Modeling, Simulation, and Visualization Engineering Department
Old Dominion University - Norfolk, VA

09/2010 – 06/2011   *"Utilizing Lean Principles for Changeover Time Reduction at Hikma Pharmaceuticals"*
Director – Mohammad Nazzal Ph.D.
Hikma Pharmaceuticals - Amman, Jordan

03/2010 – 09/2010	*"Target Price Calculation for Displays at Beiersdorf Co."* Director – Thilo Hagner Beiersdorf A.G. - Hamburg, Germany
07/2009 – 09/2009	*"Studying and Improving Strategic and Operational Warehousing Decisions at FINE Co."* PI – Safwan Altarazi, Ph.D. Fine of Nuqul Group - Amman, Jordan

GRANTS AND SPONSORED RESEARCH WRITING EXPERIENCE

Research Proposals - Submitted
- Commonwealth Health Research Board (CHRB) Grant: *"Monitoring Therapy for Chest Wall Deformity: Replacing X-rays with a Safer, Inexpensive, Faster and More Accurate Alternative".* PI – Robert Kelly, MD., 2017.
- NIH National Institute of Biomedical Imaging and Bioengineering (NIBIB) Grant: "*Development and Verification of a Home Care Optical Imaging System for Safe Chest Wall Deformity Measurement and Monitoring*". PI – Frederic D. McKenzie, 2017.

PUBLICATIONS

*Book Sections***:**
- Qi Zeng; Nahom Kidane; **Mohammad F. Obeid**; Chenghao Chen; Ruofan Shen; Robert E. Kelly; and Frederic D. McKenzie, "Utilizing Pre- and Postoperative CT to Validate an Instrument for Quantifying Pectus Excavatum Severity," In: *Communications in Computer and Information Science: Theory, Methodology, Tools and Applications for Modeling and Simulation of Complex Systems*, vol. 645, pp. 451-456, 2016.
- **Mohammad F. Obeid**; Nahom Kidane; Krzysztof J. Rechowicz; Salim Chemlal; Robert E. Kelly; and Frederic D. McKenzie, "Validation of an objective assessment instrument for non-surgical treatments of chest wall deformities," In: *Studies in Health Technology and Informatics*, vol. 22, pp. 273-280, 2016.
- **Mohammad F. Obeid**; Eun-sil Heo; Krzysztof J. Rechowicz; Robert E. Kelly; and Frederic D. McKenzie, "Towards a Hybrid Virtual/Physical Nuss Procedure Surgical Simulator," In: *Innovative Simulation for Health Care: 4th International Workshop on Innovative Simulation for Health Care (IWISH 2015)*, pp. 1-9, 2015.
- **Mohammad F. Obeid**; Salim Chemlal; Krzysztof J. Rechowicz, Eun-sil Heo; Robert E. Kelly; and Frederic D. McKenzie, "Improvement of a virtual pivot for minimally invasive surgery simulators using haptic augmentation," In: *Augmented Environments for Computer-Assisted Interventions, Lecture Notes in Computer Science*, vol. 8678, pp. 70-79, 2014.
- Salim Chemlal; Krzysztof J. Rechowicz; **Mohammad F. Obeid**; Robert E. Kelly; and Frederic D. McKenzie, "Developing Clinically Relevant Aspects of the Nuss Procedure Surgical Simulator," *Studies in Health Technology and Informatics, Medicine Meets Virtual Reality 21*, vol. 196, 2014, pp. 51-55.
- Krzysztof J. Rechowicz; **Mohammad F. Obeid**; and Frederic D. McKenzie, "Patient specific modeling of pectus excavatum for the Nuss procedure simulation," In: *Bio-Imaging and Visualization for Patient-Customized Simulations, Lecture Notes in Computational Vision and Biomechanics*, vol. 13, pp. 113–125, 2014.

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Journal Articles:

- Nahom Kidane; **Mohammad F. Obeid;** Robert E. Kelly; Qi Zeng; Chenghao Chen; and Frederic D. McKenzie, "SEOS: A Non-CT-Reliant Index for Evaluating Pectus Excavatum," In: *Journal of Laparoendoscopic & Advanced Surgical Techniques*, 2018.
- **Mohammad F. Obeid**; Nahom Kidane; Qi Zeng; Chenghao Chen; Robert E. Kelly; and Frederic D. McKenzie, "External Severity Indices for Quantifying Pectus Excavatum Validated Using Pre- and Postoperative CT Analysis," In: *Journal of Pediatric Surgical Specialties*, vol. 10 (1), 2016.
- Qi Zeng; **Mohammad F. Obeid**; Nahom Kidane; Chenghao Chen; Robert E. Kelly; and Frederic D. McKenzie, "Pre- and Postoperative Nuss Procedure CT Analysis for Assessing Pectus Excavatum Indices," In: *Journal of Pediatric Surgical Specialties*, vol. 10 (1), 2016.
- Krzysztof J. Rechowicz; **Mohammad F. Obeid**; Salim Chemlal; and Frederic D. McKenzie, "Simulation of the critical steps of the Nuss procedure," *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, vol 3, Issue 4, pp. 189-203, 2014.
- Mariam Kotachi; Ghaith Rabadi; and **Mohammad F. Obeid**, "Simulation Modeling and Analysis of Complex Port Operations with Multimodal Transportation," In *Procedia Computer Science*, vol. 20, pp. 229-234, 2013.

Conference Proceedings:

- Mahmoud Khasawneh; Tariq Tashtoush; Raed Jaradat; Sawsan Abutabenjeh; **Mohammad F. Obeid** "Modeling and Simulation for Public Policy Decision-Making: A Preliminary Causal Loop for the Case Study of Legalized Abortion and Crime," In: *Proceedings of the 2017 Industrial and Systems Engineering Conference*, 2017.
- **Mohammad F. Obeid**; Robert Obermeyer; Nahom Kidane; Robert E. Kelly; and Frederic D. McKenzie, "Investigating the Fidelity of an Improvement-Assessment Tool after One Vacuum Bell Treatment Session," In: *Proc. of the 2016 Summer Simulation Multiconference*, 2016.
- **Mohammad F. Obeid**; Krzysztof J. Rechowicz; and Frederic D. McKenzie, "Incorporating Reflection for Real-Time Multi-Configuration Haptic-Interactive Virtual Environments," In: *Proc. of the 2014 Summer Simulation Multiconference*, 2014.
- **Mohammad F. Obeid** and John Shull, "West Nile Virus system dynamics investigation in Dallas County, TX," In: *Proc. of the 2013 Winter Simulation Conference (WSC)*, pp. 2076-2087, 2013.

Posters and Formal Presentations:

- Robert E. Kelly; Robert Obermeyer; M. Ann Kuhn; Frazier W. Frantz; Kristina Laws; **Mohammad F. Obeid**; Nahom Kidane; and Frederic D. McKenzie, "Use of an Optical Scanning Device to Monitor Progress of Non-invasive Treatments for Chest Wall Deformity: A Pilot Study" at the *19th Annual Congress of Chest Wall International Group (CWIG)*, Seoul, Korea, June 2018.
- **Mohammad F. Obeid**; Robert E. Kelly; and Frederic D. McKenzie, "Development of a Hybrid Virtual/Physical Nuss Procedure Surgical Trainer," at the *International Workshop on Augmented Environments for Computer-Assisted Interventions,* held in conjunction with *Medical Image Computing and Computer Assisted Interventions (MICCAI) Conference*, in Quebec City, Canada, September 2017.
- **Mohammad F. Obeid**; Nahom Kidane; and Frederic D. McKenzie, "Pectus Metric Tool for Evaluating Chest Wall Deformities" at the *MODSIM World Conference M&S Challenge Competition*, Virginia Beach, USA, April 2017.
- **Mohammad F. Obeid**; Nahom Kidane; and Frederic D. McKenzie, "An Instrument for Assessing Chest Wall Deformities and Improvements" at the *Spring Simulation Multi-Conference (SpringSim)*, Virginia Beach, USA, April 2017.

- Qi Zeng; Nahom Kidane; **Mohammad F. Obeid**; Chenghao Chen; Ruofan Shen; Robert E. Kelly;   and Frederic D. McKenzie, "Poster: Pre- and Postoperative CT Validation of an Instrument for Quantifying Improvement after Pectus Excavatum Surgery", at the *5th World Congress of Pediatric Surgery (WOFAPS)*, Washington, DC, USA, 2016.
- Qi Zeng, **Mohammad F. Obeid**, Nahom Kidane, Chenghao Chen, Robert E. Kelly, and Frederic D. McKenzie, "External Severity Indices for Quantifying Pectus Excavatum Validated Using Pre- and Postoperative CT Analysis", at the *Chest Wall International Group Annual Meeting (CWIG)*, Norfolk, USA, June 2016.
- Nahom Kidane, **Mohammad F. Obeid**, Krzysztof J. Rechowicz, Robert E. Kelly, Salim Chemlal, and Frederic D. McKenzie, "Mobile Application for Objective Measurement of Pectus Excavatum Vacuum Bell Treatment" at the *Spring Simulation Multi-Conference (SpringSim)*, Alexandria, USA, April 2015.
- Yu Chih Hung; Dwayne Morris; Annabelle Poston; Jordan Goodmurphy; Miro Kirov; Michelle Dominado; Anna Fletcher; Frederick D. Mckenzie; Eun-sil Heo; Shao-Hui Chang; **Mohammad F. Obeid**; and Craig Goodmurphy, "Combining 3D Printing and CT Scanning in the Production of Obstetrical Ultrasound Phantoms for Undergraduate Medical Education" at: the *3rd Annual World Congress on Ultrasound in Medical Education (WCUME)*, October 10th 2014, Portland, Oregon, USA.
- Salim Chemlal; Krzysztof J. Rechowicz; **Mohammad F. Obeid**; and Frederic D. McKenzie, "Modeling Insertion Point for General Purpose Haptic Device Simulations for Minimally Invasive Surgeries," at: *2014 IEEE Symposium on 3D User Interfaces (3DUI)*, Minneapolis, USA, pp. 129–130, 2014.

INVITED PRESENTATIONS

- **Keynote Speaker:** "New Approaches in Imaging and Surgical Simulation of Chest Wall Deformity" at the *5th World Federation of Associations of Pediatric Surgeons (WOFAPS 2016)*, Oct 2016.

INVITED PEER REVIWER

- Institute of Electrical and Electronics Engineers Virtual Reality Journal (IEEE VR).
- IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR) Conference.
- Institute of Industrial and Systems Engineers (IISE) Annual Conference.

FORMAL DELEGATIONS AND PARTICIPATIONS

- **Exhibitor:** *The Interservice/Industry Training, Simulation and Education Conference (I/ITSEC)*, Orlando, FL – Nov. 2017.
- **Exhibitor:** *MODSIM World Conference, Virginia Beach, VA* – April 2017.
- **Exhibitor:** *The Interservice/Industry Training, Simulation and Education Conference (I/ITSEC)*, Orlando, FL – Nov. 2016.
- **Exhibitor and Presenter:** *5th World Federation of Associations of Pediatric Surgeons (WOFAPS)*, Washington, D.C – Oct. 2016.
- **Exhibitor and Presenter:** *Chest Wall International Group (CWIG) annual meeting*, Norfolk, VA – Jun. 2016.
- **Exhibitor and Member of Partner Country Delegation:** *Hannover Messe*, Hannover, Germany – Apr. 2016.
- **Exhibitor:** *The Interservice/Industry Training, Simulation and Education Conference (I/ITSEC)*, Orlando, FL – Nov. 2015.
- **Exhibitor:** *MODSIM World Conference, Virginia Beach, VA* – Mar. 2015.

- **Exhibitor:** *International Nuss Pectus Excavatum and Carinatum Lecture Series*, Norfolk, VA – Mar. 2015.
- **Exhibitor and Staff:** *American Society of Naval Engineers (ASNE) Day*, Arlington, VA – March 2015.
- **Exhibitor:** *Naval Future Force Science and Technology (S&T) EXPO*, Washington, D.C – Feb. 2015
- **Exhibitor:** *The Interservice/Industry Training, Simulation and Education Conference (I/ITSEC)*, Orlando, FL – November 2014.
- **Exhibitor:** *MODSIM World Conference, Hampton, VA* – Apr. 2014.
- **Exhibitor:** *Clinical Congress of the American College of Surgeons (ACS)*, Washington, D.C – Oct. 2013.
- **Exhibitor:** *11th Annual International Nuss Pectus Excavatum and Carinatum Lecture Series*, Norfolk, VA – Mar. 2013.
- **Exhibitor:** *MODSIM World Conference, Hampton, VA* – April 2013.

PROFESSIONAL ACTIVITIES

04/2018	**Conference Track Chair (Medical Simulation Track)** Modeling, Simulation and Visualization Student Capstone Conference 2018 Held on 04/19/2018 at Virginia Modeling, Analysis, and Simulation Center Suffolk, VA
01/2018 – 05/2018	**Workshop Instructor and Course Developer** "*Use and Safety Training for VR/Haptic Systems Technology Demonstrations*" Training Workshop for Graduate Research Assistant Modeling, Simulation, and Visualization Engineering Department Old Dominion University - Norfolk, VA
01/2012 – 12/2017	**MSVE Technology Demonstration Leader** C.A.V.E, Medical Simulation LAB, HTC Vive, zSpace, Oculus Rift, Microsoft HoloLens, 3D Printing, etc. Modeling, Simulation, and Visualization Engineering Department Old Dominion University - Norfolk, VA
02/2011	**Workshop Organization Committee Member** "*Introduction to Lean Principles with Hands-on Simulations*" Workshop for operators, supervisors, and team leaders of Main General Formulation Plant Hikma, Pharmaceuticals - Amman, Jordan
06/2010	**Workshop Organization Committee Member** Official workshops for Beiersdorf A.G. Branch Managers of Belgium and Holland Beiersdorf Co. - Hamburg, Germany

STUDENT ADVISING AND MENTORSHIP

01/2018 - Present	**Gheramy Guzman – Undergrad** Old Dominion University – Norfolk, VA

01/2018 - Present	**Gul Ayaz – Undergrad** Old Dominion University – Norfolk, VA
04/2017 – 08/2017	**Alessandro May – Intern** Exchange Master student - SIGMA Clermont University - Aubière, France
08/2016 – 10/2016	**Dima Ayasra - Intern** Princess Sumaya University for Technology – Amman, Jordan
08/2016 – 10/2016	**Dana Ayasra - Intern** Princess Sumaya University for Technology – Amman, Jordan
03/2016 – 06/2016	**Jewel Williams - Intern** Deep Creek High School Science and Medicine Academy – Chesapeake, VA
07/2015 – 12/2016	**Harry Haveles – Intern** Ocean Lakes High School – Virginia Beach, VA
06/2015 – 02/2016	**Ruofan Shen – Intern** Ocean Lakes High School – Virginia Beach, VA
01/2013 – 08/2013	**Tuhin Mukherjee - Intern** Old Dominion University – Norfolk, VA

PROFESSIONAL SOCIEITIES AND ORGANIZATIONS

Golden Key International Honour Society
The Society for Modeling and Simulation International (SCS)
Institute of Electrical and Electronics Engineers (IEEE)
Jordan Engineers Association (JEA)

HONORS AND AWARDS

2018	**Outstanding Contribution Recognition Award** Dep. of Modeling, Simulation and Visualization Engineering Old Dominion University – Norfolk, VA
2017	**Marquis Who's Who in America, 2017** Listed since 2017 - Present
2017	**2017 Spring Simulation Multi-Conference M&S Demo Session** *Best Paper*: "Instrument for Assessing Chest Wall Deformities & Improvements" The Society for Modeling & Simulation International – Virginia Beach, VA
2017	**MODSIM World 2017 Modeling and Simulation Challenge Competition** *Final four*: Team "Pectus Metric Tool" National Defense Industrial Association – Virginia Beach, VA

2017	**Outstanding Contribution Recognition Award** Dep. of Modeling, Simulation and Visualization Engineering Old Dominion University – Norfolk, VA
2015	**2015 Spring Simulation Multi-Conference Mobile App Competition** *3rd Place*: "Mobile Application for Objective Measurement of Pectus Excavatum Vacuum Bell Treatment" The Society for Modeling & Simulation International – Alexandria, VA
2014	**Graduate Student Travel Award** Student Engagement & Enrollment Services Old Dominion University - Norfolk, VA
2014	**Faculty Award of Excellence in Modeling, Simulation and Visualization Eng.** Frank Batten College of Engineering and Technology Old Dominion University – Norfolk, VA
2013	**Old Dominion University Infographics Competition** *In Recognition of Outstanding Data Mining and data Management Techniques* Frank Batten College of Engineering and Technology Old Dominion University – Norfolk, VA
2013	**Dean's Doctoral Fellowship Award** Frank Batten College of Engineering and Technology Old Dominion University – Norfolk, VA
2012	**Graduate Assistantship** Modeling, Simulation and Visualization Engineering Department Old Dominion University – Norfolk, VA
2007	**DAAD Scholarship for German Language** German Academic Exchange Service (DAAD) Bonn, Germany

CERTIFIED TRAINING

12/2017	**Preparing Future Faculty Certificate** Old Dominion University
08/2017	**Graduate Teaching Assistant Instructor Certificate** Old Dominion University
01/2017	**Proposal and Grant Writing "Research Boot Camp"** Old Dominion University
10/2013	**Biomedical Research Investigators and Key Personnel Course** Collaborative Institutional Training Initiative (CITI)

10/2012	**Responsible Conduct of Research (RCR) Course**	
	Collaborative Institutional Training Initiative (CITI)	
03/2010	**Leadership Course**	
	Magdeburg-Stendal Applied University - Magdeburg, Germany	
01/2008	**Intercultural Communication Course**	
	German-Jordanian University - Amman, Jordan	
08/2008	**Soft Skills Course**	
	German-Jordanian University - Amman, Jordan	

PROFESSIONAL TOOLS AND SKILLS

M&S Paradigms	Discrete Event Simulation, Continuous Simulation, Agent-Based Modeling, System Dynamics, Real-Time Simulation, Predictive and Interactive Simulation, Medical and Surgical Simulators, Virtual/Physical Hybrid Simulators, Simulation Scaling and Flexibility, Haptic-Interactive Virtual Environments, Visualization.
IE Paradigms	Linear Programming, Lean Manufacturing, Motion and Time Study, Human Factors, Automation, Operations Research, Project Management, Modeling and Simulation, Control Systems, Quality Control, Supply Chain Management, Product Development.
M&S Packages	Matlab, Arena, Simio, FlexSim, NetLogo, Powersim, Vensim, Anylogic, SimuLink, UML, Fuzzy Logic, PIPE, Logo Siemens.
Medical Imaging and Modeling Tools	X-ray/MRI/CT analysis, 3D Slicer, MicroDicom.
Visualization Packages	OpenGL, XNA, Matlab, Tableau 8.0, PhotoShop, Gimp.
3D Modeling and Design	Autodesk AutoCAD, Autodesk Maya, Autodesk 3DS Max, Autodesk Mudbox, Sketch-up, MeshLab, SpeedTree, Presagis Creator Pro.
Game Engines	Unity 3D, Unreal, Virtools.
Virtual Environments Tools	Haptic Devices, Oculus Rift, HTC Vive, Microsoft HoloLens, zSpace, C.A.V.E.
Rapid Prototyping Tools	3D-Printing (ZCorp, MakerBot), Surface Reconstruction (3D Scanner, Microsoft Kinect Scanning, ReconstructME, Skanect), Arduino.
Programming Tools	C, C++, C#, Java.
Data Analysis Tools	Minitab, Solver, Tora, CrystalBall.

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Classroom and Communication Tools	Adobe Connect, WebEx, Skype, Vidyo, Team Viewer, and Distance Learning platforms.
General Applications	SAP System, MS Office, Project, and Visio.
Operating Systems	Windows 7/8/10, Mac.

LANGUAGES

German	Fluent Speaking, Writing and Reading
English	Fluent Speaking, Writing and Reading
Arabic	Mother Language