

	Contact Information		
	Name: IBRAHIM SAAD AHMED ELDEEB		
	Address: Tanta		
	Phone contacts: 01221901929		
	Email address: Ibrahim.Eldeeb@f-eng.tanta.edu.eg		
	Google scholar: https://scholar.google.com/citations?user=jjyvGBEAAAAJ&hl=en		
	Research gate: https://www.researchgate.net/profile/Ibrahim-Eldeeb		
	Web of science: https://www.webofscience.com/wos/author/record/AAI-9908-2021		
	ORCID: https://orcid.org/0000-0002-4510-3252		
SCOPUS: 57209836010			
Education/ Academic qualifications (start with your most recent education first)			
Year	School / University	Specialization	Degree
2020	(National University of Science and Technology MISIS (NUST MISIS) Moscow Russia	Production Engineering and mechanical Design	Ph.D.
2013	Tanta University - Egypt	Production Engineering and mechanical Design	M.Sc.
2005	Tanta University - Egypt	Production Engineering and mechanical Design	B.Sc.
Academic Employment History (start with your most recent education first)			
From:	To:	University / Organization	Title of Position
10/10/2020	Till now	Tanta University - Egypt	Lecturer
26/05/2006	10/10/2020	Tanta University - Egypt	Teaching Assistant
Administrative Positions:			
From:	To:	University / Organization	Title of Position
Teaching Experience (Courses, Language, Higher Education Only)			

I do hereby declare that the information furnished above is true to the best of my knowledge .

Name:

Signature:

- 1- CNC machined material cutting processes
- 2- Engineering Drawing & projection
- 3- Principle of Manufacturing Engineering
- 4- Reverse Engineering.
- 5- Material science
- 6- Composite materials
- 7- Machine Drawing.
- 8- Engineering Design.
- 9- Production Engineering
- 10- Mechanical Measurements.
- 11- Composite Materials.
- 12- Strength and Testing of Materials.
- 13- CNC and CNC Machines
- 14- Graduation Project.

Languages

- **Arabic:** Native speaker.
- **English:** Fluent
- **Russian:** Fluent

Publications:

List of Recent Publications (In English)

1. Y. V Gamin, S. P. Galkin, A. N. Koshmin, A. Mahmoud Alhaj Ali, X. D. Nguyen, and **I. S. ELDeeb**, “High-reduction radial shear rolling of aluminum alloy bars using custom-calibrated rolls,” Int. J. Mater. Form., vol. 17, no. 1, p. 5, **2023**, doi: 10.1007/s12289-023-01801-z.
2. E. M. IBRAHIM, **I. S. El-Deeb**, and M. R. Mohamed Salem, “The Effect of Strain Rate on Electrical and Mechanical Characteristics of Pure Aluminum Using Equal Channel Angular Pressing (ECAP),” J. Eng. Res., vol. 7, no. 5, pp. 37–44, **2023**, doi: 10.21608/erjeng.2023.241762.1276.
3. **I. S. El-Deeb**, M. A. Petrov, C. Grabowik, E. G. Esmael, M. Rashad, and S. Ebied, “Mechanical Properties of PLA Printed Samples in Different Printing Directions and Orientations Using Fused Filament Fabrication, Part 1: Methodology BT - Intelligent Systems in Production Engineering and Maintenance III,” A. Burduk, A. D. L. Batako, J. Machado, R. Wyczółkowski, E. Dostatni, and I. Rojek, Eds., Cham: Springer Nature Switzerland, **2024**, pp. 643–657.
4. **I. S. El-Deeb**, M. A. Petrov, C. Grabowik, E. G. Esmael, M. Rashad, and S. Ebied, “Mechanical Properties of PLA Printed Samples in Different Printing Directions and Orientations Using Fused Filament Fabrication, Part 2: Experimental Research BT - Intelligent Systems in Production Engineering and Maintenance III,” A. Burduk, A. D. L. Batako, J. Machado, R. Wyczółkowski, E. Dostatni, and I. Rojek, Eds., Cham: Springer Nature Switzerland, **2024**, pp. 627–642.

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5. M. A. Petrov and **I. S. A. El-Deeb**, “Applying 3D-scan systems rangevision for precision preparing of polygonal 3D-models,” Proc. - **2020** Int. Conf. Ind. Eng. Appl. Manuf. ICIEAM 2020, 2020, doi: 10.1109/ICIEAM48468.2020.9112038.
6. M. A. Petrov and **I. S. A. El-Deeb**, “Experimental and numerical investigations of mechanical properties of 3D-printed polymeric samples with ideal and roughed surfaces,” AIP Conf. Proc., vol. 2113, no. 1, p. 150021, Jul. **2019**, doi: 10.1063/1.5112697.
7. E. A. Showaib and **I. S. El-deeb**, “Representing Surfaces in Reverse Engineering Using Analogue Signals,” Journal of Advanced Science and Engineering Research Vol 2, No 4September (**2012**) , pp 280-290 .
8. **I. S. El-deeb** and E. A. Showaib, “Extremely Low-Cost Scanning System For Free Form Surfaces,” International Journal of Recent advances in Mechanical Engineering (IJMECH) Vol.1, No.2, November 2012, pp. 19–29, **2012**.

List of Recent Publications under Final Review (In English)

- 1- "Reverse engineering concept in medical applications: Design of a customized shoe insole for the flat foot"
- 2- "Developing Personalized 3D Printable Cast Technique for Arm Fractures using Computer-Aided Design and Finite Element Analysis"
- 3- Numerical analysis and experimental trial formation of 2024 Al alloy using different roller types by Radial-Shear Rolling (RSR).

List of Recent Publications (In Russian)

1. М.А. Петров, **И.С.А. Эльдиб**, [Численное моделирование холодной объемной штамповки заготовки болта с шестигранной головкой с применением уточненных 3D-моделей](#), Кузнечно-штамповочное производство. Обработка материалов давлением, **2020**, №4, стр. 39 – 48.
2. М.А. Петров, **И.С.А. Эльдиб**, АН КУРОВ, [Численное моделирование холодной объемной штамповки заготовки болта с шестигранной головкой с применением уточненных 3D-моделей](#), Кузнечно-штамповочное производство. Обработка материалов давлением, **2020**, №3, стр. 32 – 40.
3. М.А. Петров, **И.С.А. Эльдиб**, [Применение Системы 3d-Сканирования Rangevision Для Подготовки Качественных Stl-Моделей](#), XXXI Международная инновационная конференция молодых ученых и студентов по проблемам машиноведения (МИКМУС-2019), **2020**, стр. 711 – 714.
4. М.А. Петров, **И.С.А. Эльдиб**, [Получение 3D-моделей листовых и объемных деталей, изготовленных методами холодного деформирования, при помощи оптического сканирования](#), Известия Тульского государственного университета. Технические науки, **2019**, №9, стр. 471 – 479.
5. М.А. Петров, **И.С.А. Эльдиб**, АД Смирнов, НВ Косачев, [Методика определения удельной энергопоглощаемости полимерных образцов, изготовленных по технологии ЭБ-печати](#), Известия Тульского государственного университета. Технические науки, **2019**, №12, стр. 110 – 117.
6. АА Прасолова, МА Куликов, **И.С.А. Эльдиб**, [Анализ возникновения дефекта на поверхности холодноштампованной детали " Корпус" при помощи компьютерного](#)

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- моделирования, Известия Тульского государственного университета. Технические науки, **2019**, №5, стр. 269– 276.
7. М.А. Петров, **И.С.А. Эльдиб**, Разработка алгоритма инлайн проверки качества поковок для оптимизации работы штамповочных линий, Известия ТулГУ. Серия: Технические науки, **2019**, №9, стр. 471 – 479.
 8. М.А. Петров, **И.С.А. Эльдиб**, Э.М. Азатьян, Оптическое 3D-сканирование и оценка точности изготовления деталей и прототипов, Известия ТулГУ. Серия: Технические науки, **2019**, №12, стр. 151 – 158.
 9. Петров М.А., **Эльдиб И.С.А.**, Исследование процесса 3D-сканирования изделий и создание виртуальных копий изделий для оценки качества внутри производственных линий, ПРОМ-ИНЖИНИРИНГ **2018**, стр. 202–207.
 10. **Eldeeb E. A.**, V.I.A., Ераку М., , Трудности Овладения Фонологической И Грамматической Стороной Русской Речи Арабоязычными Учащимися. Вестник Московского Автомобильно-Дорожного Государственного Технического Университета (МАДИ), **2017**. 4 (51): р. 3-9.

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Other Relevant Experience

Objectives

- 1- Get a high degree and position in the academic field.
- 2- Introduce a hug amount of advanced research in Production Engineering and mechanical Design.
- 3- Be aware of the new technologies of Production Engineering and mechanical Design.

Work Experience

I have got an academic post degree as Teaching assistant in Tanta university-faculty of engineering, Production Engineering and mechanical Design department from March 2006 till now.

Research Interests

- Reverse Engineering.
- 3D-Scanning
- 3D-Printing and Repaid Prototyping
- Fracture Mechanics.
- Material science
- Biomedical materials
- 3D Modelling
- Numerical analysis
- Production engineering.
- Operation research.
- Technology transfer from lap work to real applications.

Award & Certificate

- **ICDL** (2008)
- **IELTS** (2014)

Computer Skills

- AutoCAD
- SolidEdge
- SolidWorks
- QForm-3D Simulation program
- ArabCAD
- Computer maintenance.
- Internet Working.
- Windows applications
- Office applications.

Interests

Travelling, International affairs, European history, meeting new friends.

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