



**PDI Candidate Profile**  
**2018 Spring-Summer Term**



**Name:** Salman Alotaibi

**Degree:** Bachelor of Science in Mechanical Engineering  
Temple University, College of Engineering

- *Cumulative GPA: 3.66*
- *Graduation: May 2019*

Secondary Major: Entrepreneurship and Innovation Management

**Preferred Industry Sector:** Mechanical Engineering

**Preferred Location in U.S.:** A job in the energy field or innovation.

**Relevant Coursework:**

- Efficiency, performance and risk management.
- Engineering dynamic class Teacher Assistant
- Production Analysis
- Research in fluid studies
- Website development
- Robotics: programing and mechanical engineering
- Workshop Supervisor for Robotics and Electronics Department
- Youth Ambassador
- Science editor, children chapter
- Science Presenter: museum exhibits

**Salman Alotaibi**  
1500 N 15<sup>th</sup> St. Philadelphia, Pennsylvania 19121  
(267)499-0554  
Salmanf.alotaibi@gmail.com

## **EDUCATION**

Temple University, College of Engineering Philadelphia, PA

**Bachelor of Science in Mechanical Engineering**      **Graduation Expected: May 2019**

GPA: 3.66 Dean's list: Spring 2016 Spring 2017 Fall 2017 Spring 2018

**Secondary major:** Entrepreneurship and Innovation

Management **RELEVANT EXPERIENCE**

### **Mechanical Engineering Intern at Technology Transfer Office**

National Technology Enterprises Company, Kuwait City      July 2018- August 2018

- Audit internal operation to determine efficiency, performance and risk management.
- Utilizing LexisNexis for patent strategies, tools and provide best practice.
- Building and correcting design for client based on advisory board recommendations.

**Teacher Assistant** Temple university Philadelphia, PA      Jan 2018- May 2018

- Holding recitation sessions for engineering dynamic class.

**Undergraduate research** Temple university Philadelphia, PA      Aug 2017- present

### **Exploring nanostructures: Graphene-based functional materials**

- Analyze and recommend changes in equipment for 3 designs which had specific production needs.
- Provide research support in fluid studies which are designed to determine the change of parameters.
- Assist in organizing and launching a Nano research website on the internet.

**Temple Robotics** Philadelphia, PA      Jan 2016- present  
**Member**

- Collaborate the programming and mechanical engineering team

**FABLAB Kuwait** Kuwait City, Kuwait      Jan 2013- June 2015

### **Workshop Supervisor for Robotics and Electronics Department**

- Trained groups of individuals ranging from 6 to 25 years old
- Created a curriculum in robotics design and electronics for beginners
- Developed a program which encourages members to solve proposed problems and create prototypes

### **Arab Union For Science** Kuwait City, Kuwait **Founder and CEO**

Jan 2012- Jan 2016

The union's main goals are to set a database on Arab intellectuals and scientists in the different scientific fields and spread the culture of knowledge and intellectual creativity among Arab individuals and societies.

- Led a group of 350 students from around the world
- Raised \$35,000 annually through government and non-government organizations
- Sponsored and assisted members in preparation for international science events in UK, Turkey, and UAE

### **Kuwait Science Club** Kuwait City, Kuwait **Member and Teacher Assistant**

Dec 2005– June 2014

Kuwait Science club is meant for all those with the intellectual bent of mind and others who want to sharpen their scientific skills. founded: 11th August 1974.

- Developed and enhanced various skills through first-hand experience within the machinery, physics, electronics, and chemistry department
- Achieved a second level experience at Mechanic shop department 2006-2007
- Assisted students with science and engineering projects

### **Experience:**

### **Kuwait Institute for Scientific Research** **Youth Ambassador**

- Represented the institution during visits to Kuwaiti high schools
- Lead a marketing campaign through radio, TV and social media promoting summer programs

### **Alarabi Magazine** Kuwait City, Kuwait **Science editor, children chapter**

Al-Arabi is a monthly Arabic magazine that focuses mainly on the culture, literature, art, politics, society, and economics of the Arab world. The first edition was published in December 1958

### **THE FRANKLIN INSTITUTE** Philadelphia, PA **Science Presenter**

- Directed hands-on, interactive activities for visitors
- Provided patrons with information on various museum exhibits

### **PATENTS, AWARDS AND GRANTS:**

1. Patent Vehicle U-turn safety alert system, US8610595 B1
2. Golden medal at Kuwait for chemistry competition 2011-2012
3. Ideal Student award for Kuwait institute for scientific research (KISR) 35th summer training course July 2012
4. Golden medal with Honors Jury from 5th International Invention Fair in the Middle East Nov 2012
5. Best youth invention for year 2013 WIPO - World Intellectual Property Organization, Geneva, Switzerland
6. Silver medal at Nasser bin Hamed international youth creativity Award January 2013
7. Ideal Arabian youth award for year 2013 present by King Hamad Al-Kalefia King of Bahrain from Cooperation Council for the Arab States of the Gulf (CCG) .
8. Golden medal in Environmental field at Kuwait Engineering & Science Fair June 2013.
9. Ideal student award in Mechanical Engineering program at 36th Kuwait institute for scientific research (KISR) summer training course August 2013.
10. On list of best 50 Kuwaiti achievement youth present by Ministry of Youth in Kuwait, Feb 2014 .

### **Skills**

**Computer:** Solidworks, AutoCAD, MATLAB, Microsoft Office, CAD, Arduino, Adobe photoshop, Adobe Lightroom, Python, Google sketch up, 3D max, Milling, Lathing, CNC, 3<sup>rd</sup> printing, Control systems, ANSYS, Finite elements analysis.

**Languages:** Arabic, English, Italian



DATE: 06-29-2018

To whom it may concern,

I am writing this reference for Salman Alotaibi, who is applying for the Professional Development Initiative.

I have known Salman for three years in my capacity as an instructor for Calculus I and II at Temple University. I was Salman instructor for Calculus 1 and he earned a very good grade in that class. Based on Salman GPA, attendance and participation, I'd rate Salman's performance as superior.

In conclusion, I would highly recommend Salman Alotaibi for this program. If his performance is any indication of how he will succeed, Salman will be a positive addition to the program. If you should need any additional information, you can feel free to contact me anytime.

Sincerely,

A handwritten signature in red ink that reads "Luca Pallucchini". The signature is written in a cursive style.

Luca Pallucchini  
PhD Candidate in Mathematics  
Wachman Hall, Room 515  
1805 North Broad Street  
Philadelphia, PA 19122

Email: [luca.pallucchini@temple.edu](mailto:luca.pallucchini@temple.edu)

June 29, 2018

To the Professional Development Initiative Program Selection Committee:

Letter of recommendation for Salman Alotaibi

My name is Dmitriy Dikin and I am an Associate Professor in Mechanical Engineering at Temple University and the managers at the Temple Materials Institute core facility. I have more than 30 years of research and engineering experience in the field of physics and materials science. I have more than 90 peer-reviewed publications with over 25k cumulative citations.

The applicant, Mr. Salman Alotaibi, was a student in my Engineering Mechanics: Statics class in the Fall semester of 2016 and in my Materials Science Lab in the Fall of 2017. Both times Mr. Alotaibi was among top 3% of the students in those courses, but even more important he always stood out among the other students with his very serious, purposeful approach to learning new material. From the very first conversation with Salman it became very clear that he is very motivated to work hard, to overcome any obstacles and to reach his goals.

After the completion of the course Engineering Dynamics, Mr. Alotibi became an assistant undergraduate teacher for this course, providing assistance in training of lagging students, combining it with his undergraduate research activity and maintaining an excellent academic record.

In August of 2017 Mr. Alotaibi approached me with a desire of doing something else in addition to a standard academic program, and I gladly agreed to invite him to participate in my undergraduate research program. Since that time Salman became a part of my research lab. I asked him to design and analyze performance of the laboratory apparatus for materials thermal processing. I was amazed at how quickly he sorted out the problem, proposed solutions and after a few consultations provided a well-grounded project. Mr. Alotaibi participates in our group meetings, discussions, and literature reviews. Since the fall of 2017 he is also responsible for a design and support of my research group web site. And again, he was very quick to come up with a few innovative ideas in order to improve the web site visibility and forms of effective presentations.

Mr. Alotaibi is very inspired, thoughtful, and very well prepared young individual, but what is even more important, he is capable to learn new difficult material by himself very effectively, and he continues to demonstrate so by working on a variety of research projects with me. He is always expressing a very positive attitude toward everything I asked him to read, to learn, and to follow up.

Needless to say, I would love to teach and to work with students like Salman Alotaibi. I will be very happy if Mr. Alotaibi will decide to continue his studies as a graduate student in our College and under my mentorship. I hope that the PDI program will be able to support Mr. Alotaibi desire to explore different aspects of industrial, commercial and cultural interactions and cooperation between USA and Kuwait.

Sincerely yours,

A handwritten signature in black ink, appearing to read "D. Dikin". The signature is fluid and cursive, with the first letter "D" being particularly large and stylized.

Dmitriy A. Dikin, PhD  
Research Associate Professor  
Department of Mechanical Engineering  
College of Engineering  
Temple University  
Tel: 215-204-3858



SSN:\*\*\*-\*\*-0021

Student ID:915338326

Date of Birth: 06/05

Date Issued:03-JUN-2018 OFFICIAL

Record of : Salman Alotaibi

Current Name:Salman Alotaibi

Course Level : Undergraduate

**Current Program**

Degree : Bach of Science in Mech Eng

**Major:**

Mechanical Engineering

**Secondary**

Degree : Bachelor of Business Admin

**Major:**

Entrprnship & Innovation Mgt

Subj No.	Title	Cred	Grade	Pts R
----------	-------	------	-------	-------

**INSTITUTION CREDIT:**

**2015 Fall**

Mechanical Engineering

EDUC 0815	Language in Society	3.00	A	12.00
ENG 0711	Intro/Acad Discourse ESL	4.00	B	12.00
ENGR 1117	Engineering Graphics	2.00	A	8.00
MATH 1021	College Algebra	4.00	B	12.00

Earned Hrs	GPA-Hrs	QPts	GPA
13.00	13.00	44.00	3.38

**2016 Spring**

Mechanical Engineering

ARBC 0868	World Society in Lit & Film	3.00	A	12.00
ENG 0812	Analytical Read/Wrtg ESL	4.00	A	16.00
ENGR 1101	Intro/Engr & Engr Tech	3.00	A	12.00
MATH 1022	Precalculus	4.00	A	16.00

Earned Hrs	GPA-Hrs	QPts	GPA
14.00	14.00	56.00	4.00

Dean's List

**2016 Summer I**

Mechanical Engineering

MATH 1041	Calculus I	4.00	B-	10.68
PHYS 1061	Elementary Classical Phys I	4.00	A-	14.68

Earned Hrs	GPA-Hrs	QPts	GPA
8.00	8.00	25.36	3.17

**2016 Summer II**

Mechanical Engineering

MATH 1042	Calculus II	4.00	A-	14.68
-----------	-------------	------	----	-------

Earned Hrs	GPA-Hrs	QPts	GPA
4.00	4.00	14.68	3.67

**2016 Fall**

Mechanical Engineering

CHEM 1033	General Chemistry Lab I	1.00	B+	3.33
CHEM 1035	Chemistry for Engineers	3.00	B	9.00
ENGR 2331	Engrg Statics	3.00	A-	11.01
MATH 2043	Calculus III	4.00	B-	10.68
PHYS 1062	Elementary Classical Phys II	4.00	A-	14.68

Earned Hrs	GPA-Hrs	QPts	GPA
15.00	15.00	48.70	3.25

Official Electronic

Subj No.	Title	Cred	Grade	Pts R
----------	-------	------	-------	-------

**INSTITUTION CREDIT:**

**2017 Spring**

STUDY ABROAD

Mechanical Engineering

ENGR 2332	Dynamics	3.00	A-	11.01
ENGR 2333	Mechanics of Solids	3.00	A	12.00
ENGR 3571	Class & Stat Thermo	3.00	A	12.00
ITAL 1001	Italian Language I	4.00	A	16.00

Earned Hrs	GPA-Hrs	QPts	GPA
13.00	13.00	51.01	3.92

Dean's List

**2017 Summer I**

Mechanical Engineering

IH 0851	Mosaic: Humanities Sem I	3.00	A	12.00
MEE 2305	Measurement/Dynamics Lab	1.00	B+	3.33

Earned Hrs	GPA-Hrs	QPts	GPA
4.00	4.00	15.33	3.83

**2017 Summer II**

Mechanical Engineering

MATH 2101	Linear Algebra	3.00	B+	9.99
MATH 3041	Differential Equations I	3.00	B	9.00

Earned Hrs	GPA-Hrs	QPts	GPA
6.00	6.00	18.99	3.17

**2017 Fall**

Mechanical Engineering

ENGR 2196	Technical Communication	3.00	A	12.00
ENGR 3117	Computer Aided Design	3.00	A	12.00
ENGR 3201	Material Science for Engineers	3.00	A	12.00
ENGR 3553	Mechanics of Fluids	3.00	A	12.00
MEE 3301	Machine Theory & Design	3.00	A	12.00
MEE 3305	Materials Laboratory	1.00	A-	3.67

Earned Hrs	GPA-Hrs	QPts	GPA
16.00	16.00	63.67	3.98

Dean's List

**2018 Spring**

Mechanical Engineering

ECE 2112	Electric Devices & Sys I	3.00	A	12.00
ECE 2113	Electric Dev & Sys I Lab	1.00	A	4.00
ENGR 3001	Engineering Economics	3.00	A	12.00
ENGR 3033	Entrepreneurial Engr	3.00	A	12.00
ENGR 4169	Engineering Seminar	1.00	B+	3.33
MEE 3421	Dynamic Systems	3.00	B	9.00
MEE 3506	Fluids and Energy Lab	1.00	B	3.00
MEE 4574	Heat/Refrig&Air Conditng	3.00	A-	11.01

Earned Hrs	GPA-Hrs	QPts	GPA
18.00	18.00	66.34	3.69

Dean's List

**2018 Summer I**

EDUC 0823	Kids in Crisis	3.00	In Prog Course
IH 0852	IH II: The Common Good	3.00	In Prog Course

**2018 Fall**







SSN:\*\*\*-\*\*-0021

Student ID:915338326

Date of Birth: 06/05

Date Issued:03-JUN-2018 OFFICIAL

Subj	No.	Title	Cred	Grade	Pts R
------	-----	-------	------	-------	-------

**INSTITUTION CREDIT:**

ENGR	4177	Senior Design Project I: ME	2.00	In Prog Course	
MEE	3302	Kinematics of Mechanisms	3.00	In Prog Course	
MEE	4572	Heat & Mass Transfer	3.00	In Prog Course	
MEE	4577	Power Gen & Storage Tech	3.00	In Prog Course	
SGM	0827	Creativity and Innovation	3.00	In Prog Course	
SGM	3002	Planning to Start a Business	3.00	In Prog Course	

Transcript Totals	Earned Hrs	GPA Hrs	Points	GPA
TOTAL INSTITUTION	111.00	111.00	404.08	3.64
TOTAL TRANSFER	0.00	0.00	0.00	0.00
OVERALL	111.00	111.00	404.08	3.64

-----END OF TRANSCRIPT-----

