Curriculum Vitae (CV)

- **Personal Information:**

- Name: Rufaida Hussain
- E-mail: rufaidahussain@gmail.com
- Mobile: 0932301626
- Languages: Arabic-English

- **Education and Academic Background:**
  - PhD in Biomedical engineering - Damascus University, Damascus (Syria)
  - Master's degree in Biomedical engineering - Damascus University, Damascus (Syria)
  - Bachelor's degree in Biomedical engineering - Damascus University, Damascus (Syria)

- **Academic degrees and administrative tasks:**

Sep 2021–present	Faculty Member Al Andalus Private University for Medical Science, Alqadmos (Syria) - I taught the following subjects: Bio-Mechanics, Prosthetic and Orthotics and Bio -control system 3- Research Methodology -Computer aided Design
Jan 2022- 2023	ICBME- 2022 Conference organizer's committee Coordinator Damascus University - Biomedical engineering department, Damascus (Syria) Besides participating in research paper, I - Mange the call paper process for conference. - Lead the scientific reviewing team. - Prepare the conference program.
Jul 2019–Apr 2021	Research engineer 3D MED prosthetics centre, Damascus (Syria) - Brainstorming and generating innovative ideas to improve productivity and efficiency. - Studying cases, choosing and modifying designs to make the best fit for the patients.
Sep2015- present	Assistant lecturer Damascus University - Biomedical engineering department, Damascus (Syria) I taught the following subjects: Programming in C++, Biomedical Controlling, Hospital Engineering, Hospital Administration, Bio-Mechanics, Prosthetic and Orthotics, and Medical Image Processing.

Nov 2011– Jul 2015 Biomedical engineer

Damascus University- Faculty of Pharmacy, Damascus (Syria)

- Training pharmacists on operating lab equipment.
- Supervising purchases and maintenance of lab's equipment.

- **Publications and Scientific Work:**

1. Hussain, R, and Saad,K (2022). Maintenance Cost of upper limb prostheses in the center of rehabilitation and prosthetics in Damascus during 2018-2021. Damascus University Journal for Engineering Sciences, 38(2). Special issue for ICBME-2022 conference.
2. Hussain, R, Marmar, Z. (2021) Gait dataset of 14 Syrian above-knee amputees and 20 healthy subjects, Data in brief. j.dib.2021.107365/10.1016 :Vol.38. DOI
3. Hussain, R, Marmar, Z. (2020) Trunk Motion Evaluation during Above-knee Amputee's Gait. accepted for publishing in Damascus university journal of engineering science.
4. Hussain, R, Marmar, Z. (2020) Static Alignment in Above knee Amputees. accepted for publishing in Damascus university journal of engineering science.
5. Hussain, R, Marmar, Z. Influence of the Methods of Determining Stance Events on temporal-Distance Parameters during Walking. accepted for publishing in Damascus university journal of engineering science.
6. Hussain, R., Massoud, R., and Al-Mawaldi, M. (2014) ANFIS-PID Control FES-Supported Sit-to-Stand in Paraplegics - Simulation Study. -208 ،7 Journal of Biomedical Science and Engineering, .jbise.2014.74024/10.4236 :DOI .217
7. Hussain, R., Massoud, R. Al-Mawaldi, M., and Tokhi, M. (2014). Control of sit-to-stand in paraplegics using ANFIS - Simulation study. Proceedings of the 17th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machine CLAWAR at Poznan University of Technology, Poland. :DOI .Mobile Service Robotics/ World Scientific .0062_9789814623353/10.1142
8. Hussain, R., and Al-Mawaldi, M. (2014). Developing a Training Data Simulator for lower limb Neuroprosthesis Controller. .(1) Damascus university journal of engineering science. Vol. 30

- **Vision:**

Transfer biomedical engineering research into applications that will advance and improve health care services**.**

سـيرة ذاتيـة (CV)

- **المعلومـات الشـخصية:**
  - الاسـم : رفيده حسين
  - البـريد الالكتـروني: rufaidahussain@gmail.com
  - الهـاتف المحمـول: 0932301626
  - اللغـات: العربية- الإنكليزية
- **المؤهلات والشهادات العلمية:**
  - دكتوراه في الهندسة الطبية من جامعة دمشق- سوريا
  - ماجستير في الهندسة الطبية من جامعة دمشق- سوريا
  - إجازة في الهندسة الطبية من جامعة دمشق- سوريا
- **الدرجات العلمية والمهام الادارية :**
  - عضو هيئة تدريسية في جامعة الأندلس
  - عضو اللجنة التنظيمية للمؤتمر الدولي للهندسة الطبية في جامعة دمشق
  - مهندس باحث في مخبر 3DMED للطباعة ثلاثية الأبعاد للأطراف الصناعية العلوية 2019-2021
  - مهندس مشرف على الجوانب التطبيقية لعدد من المقررات في قسم الهندسة الطبية -جامعة دمشق 2015-2022
  - مهندس طبي – كلية الصيدلة -جامعة دمشق
- **النّشـر والأعمال العلميّـة:**

- Hussain, R, and Saad,K (2022). Maintenance Cost of upper limb prostheses in the center of rehabilitation and prosthetics in Damascus during 2018-2021. Damascus University Journal for Engineering Sciences, 38(2). Special issue for ICBME-2022 conference.
- Hussain, R, Marmar, Z. (2021) Gait dataset of 14 Syrian above-knee amputees and 20 healthy subjects, Data in brief. j.dib.2021.107365/10.1016 :Vol.38. DOI
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- Hussain, R, Marmar, Z. Influence of the Methods of Determining Stance Events on temporal-Distance Parameters during Walking. accepted for publishing in Damascus university journal of engineering science.
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- Hussain, R., Massoud, R. Al-Mawaldi, M., and Tokhi, M. (2014). Control of sit-to-stand in paraplegics using ANFIS - Simulation study. Proceedings of the 17th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machine CLAWAR at Poznan University of Technology, Poland. .0062_9789814623353/10.1142 :Mobile Service Robotics/ World Scientific. DOI
- Hussain, R., and Al-Mawaldi, M. (2014). Developing a Training Data Simulator for lower limb Neuroprosthesis Controller. .(1) Damascus university journal of engineering science. Vol. 30

- **الرّؤيـــة:**

  - نقل أبحاث الهندسة الطبية الحيوية إلى التطبيق لتحقيق تقدم خدمات الرعاية الصحية وتحسنها.