


## Curriculum Vitae

### Emrecañ Bayhan

<b>Personel Information</b>	<p><b>Adress:</b> Nenehatun mah. Ayazma Street. No:76 Apartment:8 <b>Esenler / İstanbul</b> <b>Phone:</b> 0 533 568 32 43 <b>E-mail:</b> <a href="mailto:emrecañ.bayhan1@ogr.sakarya.edu.tr">emrecañ.bayhan1@ogr.sakarya.edu.tr</a> <b>Date of birth:</b> 29.11.1992 <b>Place of birth:</b> Fatih / İstanbul, <b>Military Service:</b> Done <b>Status:</b> Single</p>	
<b>Education</b>	<p><b>2006-2010:</b> Yahya Kemal Beyatlı High School <b>2010 - 2013:</b> İstanbul University Geophysical Engineering (3. Year left) <b>2013 – 2016:</b> Sakarya Üñiversity Mechanical Engineering <b>2016- continuig:</b> Sakarya University Institute of Science Aotumobile Engineering (Master program)</p>	
<b>Working Experience</b>	<p><b>2014 July-August :</b> Intern/ Pada San. Tic. Ltd. Şti</p> <p><b>2015 July-August :</b> Intern / PDS San. Tic. Ltd. Şti</p> <p><b>2015 September – January:</b> Intern / Başak Traktör Tar. Mak.</p> <p><b>2016 June – December:</b> Junior Assistant / Bilge Adam – Ford Otosan partnership</p> <p><b>2017 – 2018 (11 months):</b> Intern CFD (Computuioanl Fluid Dynamics)/ Hochschule Düsseldorf University in Germany</p>	
<b>Projects</b>	<ul style="list-style-type: none"><li>• The program which calculated Gear wheel in the MATLAB (Also including Graphic User Interface was made / Sakarya University Project)</li><li>• the Program that can be calculated transmission rate of gear and torque (Basak Tractor / for department of quality of product )</li><li>• the Program that giving engine paramters (diameter of piston,stroke,size, pin sizing, calculation of cooling,Calculation of distance between segments). according to certain torque and cycle. The program also including fuzzy Logic, in this way and inversely it can be calculated torque and cycle that by entering average diameter of piston and stroke size. (my bachelor thesis)</li></ul>	

- Steady State, Incompressible , LAMINAR CHANNEL/PIPE FLOW with HEAT TRANSFER (Hochschule Düsseldorf University)
- STEADY STATE, INCOMPRESSIBLE, LAMINAR CAVITY FLOW (Hochschule Düsseldorf University)
- STEADY STATE, INCOMPRESSIBLE, LAMINAR FLOW THROUGH A CHANNEL WITH CONTRACTION (Hochschule Düsseldorf University)
- NACA 2415 Airfoil mesh design and investigation of fluent (different wind angle of attack , in Düsseldorf University)
- Cylinder on the Magnus Effect mesh design and investigation (different type of shape and static , moving velocity , in Düsseldorf University)
- cylinder and airplane wing (NACA) combination and investigation on the ANSYS Fluent (in Düsseldorf University)
- Vein pressure analysis on the ANSYS (according to MR results, it was made 3D vein shape and transferred ICM before the ANSYS, that got from real patient.(in Düsseldorf) \* This project afterward was cancelled since wasn't able to found required medical technician.
- The program that developing algorithm according to original function. by using present values, the values was taken derivative and among themselves and was reached another function same as original function. According to present number that i have,either i can estimate function or i can approaching, that existing numbers by taking derivative. this is math theory what i never encountered in the literature, my individual project)
- different integral solutions and approaches (  $\int f(x)dg(x)$  ,
- Simple lane replacement simulation by using fuzzy logic and image processing. According to simulation, the boxes that represented as a car, was observed according to fuzzy logic groundwork. The car whether moving right or left, it has been assessed according to data that obtaining from image processing results.
- Shape and color detection by using either neural network or image processing
- Plate Number recognise , image processing
- find center of gravity between 2 equaitons with intgral approaching

<p><b>Attributes</b></p>	<ul style="list-style-type: none"> <li>▪ Foreign Language: English B2 (Intermediate) Reading: Good Writing: Good Listening: Good , Italian (Beginner)</li> <li>▪ Certificate : Başarı Soft Autocad Certificate (2010)</li> <li>▪ Computer Skills : PTC Creo (Excellent) ,Matlab (Excellent, Fuzzy Logic, Neural Network, Image Processing ),Ansys Fluent (Good), ICEM CFD (good), ANSA (normal),Catia (Normal ) , Solidwork (normal), Office Programs</li> <li>▪ Hobbies: Reading book, Travel, investigation and development Math theorem (Especially derivative , antiderivative and Differential equations)</li> </ul>
<p><b>References</b></p>	<ul style="list-style-type: none"> <li>▪ Prof Ali Cemal Benim Hochschule Düsseldorf University Mechanical Engineering <a href="mailto:alicemal@prof-benim.com">alicemal@prof-benim.com</a></li> <li>▪ Assoc. prof. dr Aslan Çoban Sakarya University Mechanical Engineering 050 503 44 29</li> <li>▪ Ahmet Kaya Turkish Airlines Logistic Vice President +90 507 753 00 61</li> <li>▪ Michael Diederich Hochschule Düsseldorf University (PdD student) <a href="mailto:michael.diederich@hs-duesseldorf.de">michael.diederich@hs-duesseldorf.de</a> / +49 176 20431488</li> <li>▪ Assoc. Prof. dr Vezir Ayhan Sakarya University Mechanical Engineering 0535 551 63 88</li> <li>▪ PhD. Cheimst Barış Kumru University of Postdam Chemist Department +49 174 6219153</li> </ul>