



JOSHUA KARP

BENG MECHANICAL ENGINEER

EMPLOYMENT SUMMARY

Application Engineer

MECAD SYSTEMS | OCT 2018 - PRESENT

- Technical support on SOLIDWORKS products
- Assist the sales engineers with the sales process (technical information, product information, demonstrations, etc) to ensure that the sale can be closed
- Assist customers with installations, error and/or related issues which requires problem finding and solving while offering guidance to customers in line with best practice principles
- Offer simulation consultation
- Provide training in all available SOLIDWORKS packages
- Work alongside the developers to improve the product and user experience
- Development and maintenance of custom SOLIDWORKS API plug-ins (C#)

Internship

UNIVERSITY OF PRETORIA | JUNE 2016 - JUL 2017

- Created a robust mechanical CAD model of a prototype solar thermal generator
- Completed FEA analysis with ANSYS on specific integral components
- Presented the final design and results to project leader
- Manufactured and constructed all the steel components
- Assembled the manufactured parts into the prototype solar dish and tested the basic functions.

EDUCATIONAL HISTORY

Crawford College, Pretoria

MATRICULATION | JAN 2000 - DEC 2012

- *Elected classes:* Higher Grade Mathematics, Advanced Mathematics, Physical Science, Information Technology and Accounting
- *Required classes:* English First Language, Afrikaans First Additional Language and Life Orientation

University of Pretoria

BACHELOR OF MECHANICAL ENGINEERING | JAN 2013 - DEC 2017

- BEng - Mechanical Engineering
- *Specialist Elective:* Vehicle Engineering
- Excelled in Computational fluid dynamics, Thermodynamics, Control systems, Vibration analysis, Programming and CAD based courses

Hyperiondev

FULL STACK WEB DEVELOPER BOOTCAMP | FEB 2020 - PRESENT

- Languages: HTML, CSS, JavaScript, Node.js, MongoDB, Express and React

CORE COMPETENCIES

- Design and Validation
- CAD-Based platforms (SOLIDWORKS-CSWP, CSWP-S, ANSYS, Adams, FloEFD)
- Strong Team Collaboration
- Engineering Documentation
- Workshop Competency
- Microsoft Office (Word, Excel, PPT, Outlook)
- Automotive Design (Practical and theoretical)
- Programming (C#, Python, SQL, HTML5, CSS3)
- MS Visual Studio, Atom, Azure, Git

"I want to look back on my career and be proud of the work, and be proud that I tried everything." — Jon Stewart



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BENG MECHANICAL ENGINEER

PROFESSIONAL OVERVIEW

I am a strategic, driven and highly motivated mechanical engineering graduate with the ability to implement a logical thinking style and theory into practical situations to solve problems.

I work well in teams due to my strong communication skills and appreciation for the balance between form, function and cost-efficiency.

I am a reliable, honest, and determined individual willing to go the extra mile to ensure quality results.

PERSONAL INTERESTS/HOBBIES

- Passionate about the automotive industry and Motorsport
- Racing and advanced driving experience (BMW, drivers Ed advanced, BMW Club Time trial Racing)
- Hobbyist CAD designer and 3D printer/maker.
- Competitive Bodybuilder (2 Regional and 1 National shows)
- Fitness and healthy lifestyle enthusiast
- Hobbyist developer in C# and Python
- Pursuing a certification/degree in software development

WHY HIRE ME?

I am confident in my ability to generate superior results for your company and willing to tackle any challenges that follow. My desire to never stop learning and my aptitude to grasp information quickly allows me to help your company in areas that are outside of my comfort zone.

For a more detailed presentation of my offerings, feel free to contact me at your earliest convenience.

Thank you in advance for your consideration, and I look forward to hearing from you.

CONTACT INFORMATION

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REFERENCES

- Dr WG le Roux – Senior Lecturer and Project Leader, University of Pretoria
Contact: 084 581 2619; Email: willemleroux@gmail.com
- Mr Jaco Van Den Berg – Senior Technical Manager, MECAD Systems
Contact: 012 645 4300; Email: jaco.vandenberg@mecad.co.za