

Clayton Stewart

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Objective

I am looking to integrate my engineering capabilities, along with my programming experience, to contribute in robotics design and analysis as well as to work alongside control software developers, in order to build state-of-the-art robots.

Education

University of Arizona - Cumulative GPA: 3.5

2014

Degrees:

Bachelor of Science in Mechanical Engineering
Minor in Mathematics

Awards:

Best Overall Design: Robotic Fish - Lead Mechanical Engineer – Capstone Design Project

Completed Coursework:

- | | | |
|---------------------------|----------------------|------------------------|
| • Control System Design | • Vibration Analysis | • Dynamics of Machines |
| • Finite Element Analysis | • Heat Transfer | • Numerical Methods |

Pima Community College - GPA: 4.0

2014

Degree:

- Associates in Machine Tool Technology (in progress)
- Focus in CNC Mill Programming

Experience

AGM Container Controls, Tucson, Arizona

June 2009 - present

Titles:

- | | | |
|--------------------------|-----------------|----------------------|
| • Design Engineer | • IT Programmer | • CNC/CMM Programmer |
| • Manufacturing Engineer | • QA Inspector | • CNC/CMM Operator |

Awards:

- 2012 Part-time Employee of the Year
- 2012 Team of the Year: 2nd Place
- 2012 Bright Idea Award Winner: 3rd place

Experiences:

Information Technology:

- Developed .NET software, which interacted with SQL databases, automating repetitive business processes and exposing information.

Quality Assurance:

- Learned modern techniques to measure part conformance including programming and operating a CMM.

Engineering Department:

- Created Assembly Instructions and updated several drawings for clarification as well as reducing machining and inspection costs through the re-tolerance of non-critical dimensions.

Machine Shop:

- Set up, operated and programmed CNC lathes and mills.

Brownell Inc., London, England

Summer 2011

Engineering Department:

Performed market analysis on shock indicators and conducted research on existing patents before designing a resettable shock indicator that triggered, when a predetermined threshold was surpassed, notifying the receiving department of the possibility of damaged goods.

Skills

Computer Languages:

C++, .NET, Python, SQL, HTML, CSS, G-Code

Data Manipulation Software:

Visual Studio, SQL Server/SSRS, Excel, MatLab

Computer Aided Design Software:

SolidWorks, AutoCAD, ANSYS

Computer Aided Manufacturing Software:

MasterCAM, FeatureCAM

Computer Aided Measuring Software:

CMM Manager

Misc. Software:

Git, Photoshop, Final Cut Pro, Word, PowerPoint

Comprehension of coupling Electro-Mechanical Systems, Dimensional Analysis, TRIZ and GD&T

References

Tom Christie, Chief Information Officer, AGM Container Controls
P: 520-881-2130 E: tchristie@agmcontainer.com

David Dolana, Quality Assurance Manager, AGM Container Controls
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