

Andre Pierre Christopher Stemmett (C#, Python)

andredrestemmett@gmail.com

[DropBox](#)

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EDUCATION

Stellenbosch University

Bachelor of Engineering (BEng) (CIVIL) (4yr)

-honors included

March 2019

THESIS

Photo Voltaic Object Model - Domestic application/feasibility

November 2018

EXPERIENCE

EMPLOYER

POSITION

DURATION

Microcare

Solar Engineer

June->October 2020

Description: This job description encapsulates the entire design process associated with a PV solar installation up to and including a capacity of 1MW. The process included: Data analysis, cleaning and sorting; electrical calculations pertaining to system design; report writing, client facing and relationship building. Through careful application of the above mentioned, an annualized ROI of between 7-12% was realized with a maximum payback period of 7 years. A link to an example report can be found in the drop box link. Designed and created the company website with Avada Theme Fusion (<http://microcare.co.za>)

Engineering Advice & Services

Junior Software Developer

March ->June 2020

Description: Re-Design a cross-platform road survey Application which will adhere to the regulations and guidelines set by COTO South Africa. The Application is set to be used throughout the country by various Civil and other engineering related sectors.

Engineering Advice & Services

Junior Project Manager

June -> November 2019

Description: Managed and coordinated the development of 25 small residential properties (New Horizon Villages, Parsonsvlei, South Africa), by increasing productivity by 30% and reducing the cost of inventory by approx. 10% to increase projected profits by 20%.

Engineering Advice & Services

Junior Analyst

May -> November 2019

Description: Participated in the design and implementation of a cost analysis and ordering program, using **VB.NET** and **MySQL**. The program sort to achieve: An accurate cost comparison; A predictive model connecting time, cost and profit; The elimination of redundant tasks to increase productivity.

Engineering Advice & Services

Junior Programmer

April -> June 2019

Description: Designed and developed a water loss management program, using **Visual Basic** and by obtaining data from various Flotron Q-loggers, resulting in a 20% decrease in consumption rate and a 70% higher probability of leak detection within a defined mitigation period.

Description: Designed and created PRV (Pressure Relief Valve) water loss chambers by performing pressure calculations in relation to available water per area per time duration. **Civil Designer** and **AutoCAD** were used to provide the Kouga municipality with a 20% more efficient water usage curve.

*Microcare**Junior Programmer**March -> April 2019*

Description: Designed and partially developed a feasibility calculator using **Visual Basic** and **Android Studio**, by receiving consumption data, to achieve a full PV domestic solution. Results concluded a 5-year payback with exponential savings thereafter.

*Engineering Advice & Services**Junior Analyst**March -> April 2019*

Description: Aided in the development of an equity distribution algorithm, to maximize old and new shareholder dividend profit over a period of 20 years, based on current company evaluation.

PERSONAL PROJECTS

Mobile App (Android/iOS)

1. A Polaroid application designed to capture special memories and add tags/comments to those memories. View your Polaroids digitally through a slide show.
(<https://github.com/AndreDrDre/PolaroidAPP>)
2. An Application designed to record the Employee Fuel slips so as to mitigate the tiresome process associated claiming back Fuel from your company. The application is designed to use a local Database (SQLite). An API and corresponding DB.
(<https://github.com/AndreDrDre/Xamarin.FuelSlip>)
3. A Domestic PV Solar Solution designed to calculate the quantity required of each individual solar component as well as the topography, having received a given load measured in kWh. Further the application will determine ROI of the user specific System.

Web App (Django & Python)

1. An ecommerce site developed within the Django Framework. The site includes guest browsing where information pertaining to the guest user is stored in 'browser cookies'.
2. A logistics/stock tracking application developed for commercial use. The web application was developed within the Django Framework.
3. A portfolio website developed to host my projects and on-going progression in my career.

SOFTWARE TOOLS

- Python
- C# (Android & IOS Dev)
- HTML
- CSS
- GitHub
- Git
- Aws
- heroku
- Xamarin Studio
- Django
- MySQL
- Bootstrap
- JS(Basic)
- Word Press
- Jupyter Notebook

OTHER EXPERIENCE

Founder of Dirty-Disco Events

Co-founder – Pierre Stemmett(pierrestemmett@gmail.com)

- Managed 2 successful events of 800 + clients.
- Ensured profitable. (40% ROI)
- Building relationships (Red Bull, Fitch & Leedes)
- Project management. Lead and coordinated a team of 20 members.

LEADERSHIP AND AWARDS

- Selected as one of four candidates for a scholarship, from Engineering Advice and Services, covering the duration of the degree.
- Acted as Junior Project Manager for New Horizon Villages, Pasonsvlei, for a period of 6 months.
- Selected as the team leader for a final year Project Management assignment, using the **Sim4projects** software package.
- Represented one of the four houses in a leadership position in Grade 12
- Attended the wakeboarding nationals in Port Elizabeth.
- Received academic honors blazer in Matric

ABOUT ME

By virtue of both my education and other related interests, I am inclined to thoroughly enjoy creative thinking and problem solving. I desire the progression associated with obtaining new knowledge. I believe that working in a team provides an ability to use the collective power of various minds, which inevitably results in a more creative and concrete solution. I am passionate about the ever-progressing link between renewable energy and software application.

Further, I take great interest in the art of investment trading. I am passionate about relationships, creativity, software design and fitness.