

# Venanzio Petrarolo

Final Year Chemical Engineering Student

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## Core Skills



## Work Experience



Total experience: More than 5 months



## Profile

Currently completing the final year of a bachelor degree in chemical engineering at the University of Pretoria and is seeking graduate employment; to begin early 2019. In particular, would like to take advantage of skills and interests in problem-solving, innovation and creative thinking, as these relate to engineering and management topics.

Also, is free to relocate as necessary. A highly motivated, independent, and goal orientated individual who has past all subjects thus far with a year-to-date final year average of 76%. Has also accumulated more than 5 months of diverse student work experience and more than 300 hours of community service.

## Experience

- Dec 2017 **Distell Student Employee** Distell  
Worked for eight weeks in a cider packaging facility. This was focused on efficiency of production lines and defect management. Spent many hours each day on the production lines, gaining practical, hands-on experience. Interacted with employees from a variety of departments, such as quality control, packaging, utilities, finance, engineering and cellars.
- Aug 2017 **ACTS UP society chairperson** ACTS  
Was responsible for leading a committee which oversaw various events that aided in the spiritual development of the society's 240 registered members. Some such events include outreach programmes such as a weekly soup kitchen and clothing drives.
- June 2017 **NrG Student Employee** Next Renewable Generation  
Worked for four weeks at a renewable energy and financing company. Acted in a supporting role in the development of various client project proposals and assisted in moving the business' offices to a new location. This included setting up equipment and furniture.
- Dec 2016 **Distell Student Employee** Distell  
Worked for eight weeks in a cider making facility. This involved various investigations, report writing, lab work and general plant work.
- Apr 2013 **Johannesburg Junior Council Member** JJC (NGO)  
Served on the Johannesburg Junior Council as a committee chairperson. Oversaw events and fundraisers, and engaged with committee members, management of the council and other organisations such as Greenpeace and the World Wildlife Fund.

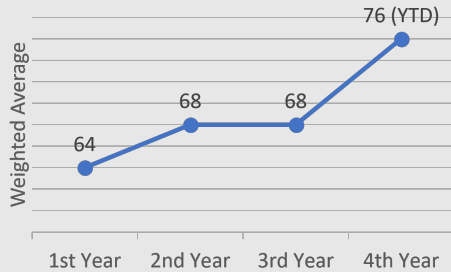
## Achievements & Certificates

- 2018 **Mensa high IQ Society** MENSA  
Passed the entrance exam, which requires an IQ in the top 2%, in July 2018 and is now a member of the society's Pretoria chapter.
- 2017 **Golden Key International Honour Society** Golden Key  
Golden Key provides international invites students in the top 15% of their respective degree programs. Was invited to join the society based on third year academic performance.
- 2016 **Diversity training certificate** University of Pretoria  
Took part in a pilot module, "Doing Difference Differently (3D)" offered to students in addition to their course modules
- 2014 **RSA President's Award** The President's Award  
Gold level President's Award recipient; signed by president Zuma.
- 2013 **Peer counselling certificate** JPCCC  
Received a certificate from the Johannesburg Parent and Child Counselling Centre after an extensive course with experienced psychologists.

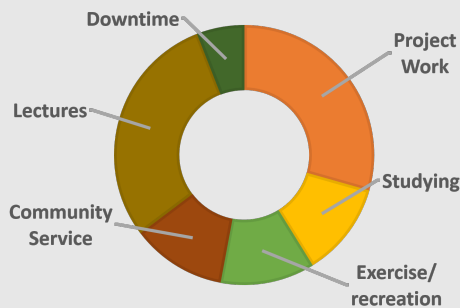
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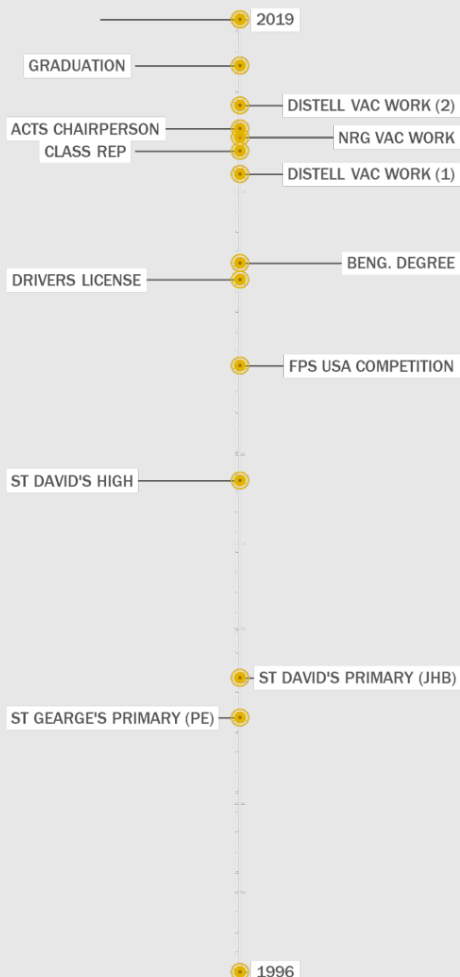
## Always Improving -



## Time Spend



## Timeline



## Education

Jan 2015 -  
Nov 2018

**BEng. Chemical Engineering**  
*Pretoria, South Africa*

University of Pretoria

- **68% GPA:** Currently a final (fourth) year student with a year-to-date average of 76%.
- **Specialisation: Optimisation.** Currently completing an elective that teaches techniques and applications of optimisation.
- **Research: Flame retardant polymers.** Synthesised and investigated the effectiveness of a novel flame retardant for various plastics.
- **Class rep:** Was one of four class representatives in third and fourth year responsible for being the point of contact between the 100 person class and the chemical engineering department as well as organising the yearly departmental function, and department regalia.

Jan 2010 -  
Nov 2014

**High School**  
*Sandton, South Africa*

St David's Marist Inanda

- **Activities & Leadership:** Nine matric subjects including AP mathematics, first team hockey squad, debating captain, and third place in the school's "best speaker" public speaking competition. Trained and served as a school peer counsellor and lead the school filming society.
- **Community Service:** Accumulated over 200 community service hours and received full colours for community service as well as an award for school service.
- **Future problem-solving programme:** Represented South Africa in the Future Problem Solving world championship in the USA as the youngest member of the team.

## Additional Information

Has a code B South African drivers license; excellent public speaker; familiar with chemistry lab equipment; familiar with processing plants, production lines and pilot plants. Has practical experience in using power tools and equipment such as a drill press, welder, and angle grinder.

Programming experience in Python, HTML, LaTeX, and Django (web framework). Further computer knowledge includes proficiency in the following programmes: Excel, Word, Powerpoint, Outlook, OneNote, SolidWorks (CAD software), LT spice (electrical simulations), OpenModelica (control simulations), Aspen Plus (chemical plant design), Sony Vegas (video editor) and Audacity (audio editor).

Plays field hockey and is a regular blood donor.