

INTERNSHIP REPORT

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Professor: Dr. Bodnovich

08/04/07

I. Acknowledgements

I would like to thank all the staff at the Duferco Farrell Corporation. Special thanks to the Information Technology Services' staff for their friendliness, availability, and openness. Thanks to Jennifer Koontz who directed me through my internship and the fitness center of Duferco Farrell, which helped me relax during endless hours of programming.

Also, I'd like to thank career services at Youngstown State University and WCBA for the outstanding job they do at finding internships for YSU students. Special thanks to Ms. Gwen, Christina Hardy, and mainly my department's chair, Professor Tom Bodnovich for his great help over the several semesters I've been at Youngstown State University.

II. Introduction

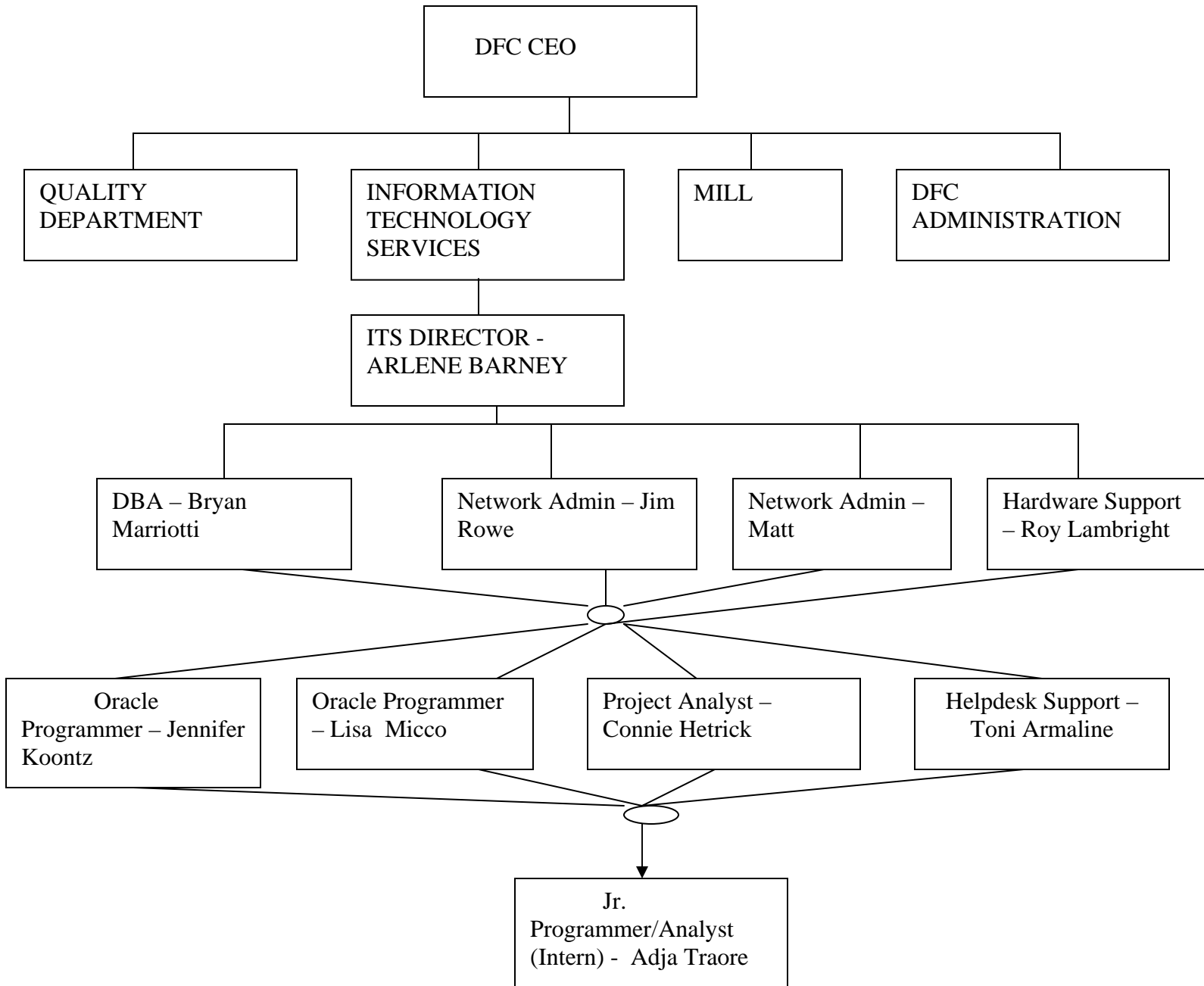
Summer 2007 has been the best learning experience that I have ever had. I got an internship with Duferco Farrell Corporation. I've also wanted to do an internship before I graduate. But, to tell the truth I not only wanted to do an internship, most importantly, I wanted to intern with Microsoft Corporation. After I didn't get selected by Microsoft, I was pretty disappointed. But, I still decided to go to interview day and interview with some other companies to see which other ones I'd like. That's when I realized that I would be able to learn even more with smaller companies than with big ones. With the help of Ms. Gwen and Christina Hardy, I was able to write nice cover letters and resumes, and was well-prepared for interviews. I actually got 4 different internships,

among which I chose to intern with Duferco Farrell Corporation. I strongly believe it was my best choice.

III. Company/Agency Description

DUFERCO-FARRELL CORPORATION is a hot and cold roll steel manufacturer, located on the former Sharon Steel site. The ITS department is extremely competent – with accomplishments far beyond those of a typical organization of its size. The company is technologically savvy and is aware that technology is useful only as it serves to further the corporate business goals. Duferco-Farrell is a people-oriented organization and an exciting place to work. The atmosphere is relaxed, friendly, fun and family-oriented. Even so, everyone is focused on and committed to the task at hand.

IV. Organization Chart



V. Position Description

As a Jr. Programmer/Analyst Intern, I got to work on various IT project. Anywhere from helpdesk to projects where I had to implement parts of an information systems. Because of the team focused culture at Duferco Farrell Corporation, as an intern, I've always had immediate access to anyone I need. I was assigned a mentor who worked closely with me on all my projects. However, everyone in the organization is willing to provide assistance to me at any time when needed. I feel like the work I'm doing is very valuable to the organization, and it is providing me with the kind of experience I'm looking for – one that provides the practical experience I need for my career someday.

VI. Discussion

a. Internship experiences

I feel like I'm gaining practical, real-world experience through participation in various IT projects. From this experience, I've gained an understanding of the many phases of the system development life cycle and an understanding of the importance of the deliverables required at each phase. I've also gained practical understanding of how to function within an organization. I've also learned the value of team-work and the importance of communication both within and outside of the ITS department.

I've also been exposed to the various roles found in a typical Information Technology department, including database administration, systems

administration, project management, application programming, analysis, design, training, application support and process re-engineering.

b. HW, SW, Interpersonal

I used many different operating systems while there; these included:

Windows 2000, Windows XP, Oracle 9i, Toad & SQL*. Everyone at the DFC was very friendly. Both inside and outside the ITS department, I always felt like I was a fit. Always felt wanted there. We had a lot of fun both during working hours and non working hours. Went to lunch a couple of times. Overall, it was a great experience.

c. Problems, opportunities

I've had a lot of great opportunities both at the personal and professional levels. I learned a lot from everyone there. I got to know them, and learn as much as possible from them. There really haven't been any major problems, but very few minor ones with frustrated users who called the helpdesk with an issue. Sometimes they weren't really patient and wanted their problem solved right away. But, that didn't really affect me.

d. YSU/CIS Background

I am currently pursuing a Bachelor's in Computer Information Systems with a minor in Management Information Systems. I should add that I have an Associate Degree in Microcomputer Specialist. I've taken a lot of classes that have prepared me for this internship. They include: Oracle-SQL, Database

Applications, Systems Analysis, Database Use & Design, Information Systems Management, Visual Basic and C++ Programming, DOS, UNIX and Windows, Networking, TCP/IP.

e. Strengths, weaknesses

My strength while at the internship is that I was able to use my creativity to create and design and write code. I also was able juggle many different tasks at one time and could handle the constant interruptions and distractions when I needed to assist someone with a problem.

VII. Conclusion

In conclusion, it's been a great experience for me interning at the Duferco Farrell Corporation. So far, I've enjoyed every minute of my internship. I have my own office with my own phone line and computer. And I'm doing a professional job, which is my dream job, programming. I love it. I actually get to practice in the real world what I've learned in school. The company's operation is amazing. I now understand how databases connect to each other and how IT is the core of all daily business routines in such a big company. Everyone is friendly and helpful. It's also a lot of fun working here.

VIII. Future learning

I wish to do another internship before I graduate, that way I'll have more experience than I have now. That will make me very marketable after I graduate. I also plan to pursue my Masters after I obtain my Bachelor's degree.

IX. Recommendations

I think everything was perfect with my internship. I got more than I expected to get.

X. Appendices

a. Work schedule

Monday 8am - 5pm

Tuesday 8am - 5pm

Wednesday 8am - 5pm

Thursday 8am - 5pm

Friday 8am - 5pm

b. Resume

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Objective

A team-oriented co-op position in computer Information Systems where my education and skills will be readily applied and would undergo professional growth while allowing me to significantly contribute to the team.

Education

YOUNGSTOWN STATE UNIVERSITY – Youngstown, OH
Bachelor of Science in Applied Science, December 2007
Major: Computer Information Systems
Minor: Management Information Systems
Accumulative GPA: 3.86/4.00

CUYAHOGA COMMUNITY COLLEGE – Cleveland, OH
Associate of Science Degree, December 2005
Major: IT - Microcomputer Specialist Accumulative GPA: 3.75/4.00

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08/04/07

**Honors/
Achievements**

- University's Honors Program
- Leslie Cochran Scholarship
- National Dean's List
- Dean's List
- 6 Certificates of Excellence
- 2 Leadership Certificates

**Relevant
Coursework**

- Oracle-SQL
- Database Applications
- Calculus I & II
- Systems Analysis
- Database Use & Design
- Information Systems Management
- Visual Basic and C++ Programming
- DOS, UNIX and Windows
- Networking
- TCP/IP

**Computer/
Professional
Skills**

Operating Systems: DOS, UNIX, Windows 95/98/NT/XP
Programming Languages: C++, Visual Basic, Oracle PL/SQL
Other Software Usage: Ms Word, Excel, Access, PowerPoint, Visio; FrontPage;
Attributes: Bilingual in French and English, team-oriented with excellent leadership abilities, self-motivated, committed, adaptable, fast learner

**Employment
Experience**

DUFERCO FARRELL CORPORATION – Farrell, PA
Junior Programmer/Analyst – May 2007 – present

- Work on various IT projects for other departments within the company
- Develop various codes in PL/SQL
- Create many database objects including tables, cursors, triggers, packages
- Helpdesk – help users resolve their IT issues including Oracle problems

YOUNGSTOWN STATE UNIVERSITY – Youngstown, OH
Data Analyst, Electrical and Computer Engineering. August 2006 – May 2007

- Collect, tabulate and analyze data, make graphs, and develop reports
- Prepare documents for accessing students' outcomes
- Assist in updating the department's website
- Research the Internet for information regarding courses and equipment

Office Assistant, Housing and Residence Life. January 2006 – May 2007

- Entered and modified information in the residents' database
- Created mailing lists and mailed out housing information to residents

CUYAHOGA COMMUNITY COLLEGE – Cleveland, OH
Student Assistant, Bookstore. July 2004 - December 2005

- Ensured accurate book inventory through database program

Activities

Web Master, African Student Union. Spring 2006 - Present
Vice President, International Student Association. Spring 2006 – Summer 2007
President, Multicultural Club. Fall 2003 - Fall 2005
Phi Theta Kappa Honors Society. Fall 2003 – Fall 2005
Computer Club. Spring 2004 – Fall 2005

References

Available upon request

c. Samples of Work

My first project was to design a system for the Quality Assurance Department of Duferco Farrell Corporation in PDA (Processing Data Analytic). We have about 4 database tiers. My project was mostly in Level 3, which has two subsets: Dev and Test. a duplicate of some tables (tables needed to be viewed by users) in level 3 is put in level 4 and is updated about every 10 minutes. Level 4 (also called DS Prod) is a more user friendly system, and it allows users to view the information they need in a more user friendly environment. In this project, I created a trigger that executes every time a new row is inserted into the Supplied Slab table or when an update is done on the table. I first created a new table called HR_COIL_CATALOG with the following fields from their respective tables:

Item Catalog Table:

Customer Name
Grade
Thickness M/N
T Tol+
T Tol-
Width
Width M/N
W Tol+
W Tol-
Finish
Oil
Hardness
Hardness range
Edge
ID
OD

PDI:

Carbon Code
Sulfur Code
Target Finish Thickness
Plus Thickness Tol
Minus Thickness Tol
Target Finish Width
Plus Width Tol
Minus Width Tol
Target Temp
Target Coiling Temp
Supplier Restrictions
Supplier Preference
Supplier Imposed
ROT
Product Category
Product Type

Cust Spec:

Customer Part Number
Industry Spec
Step Extra
Yield Min
Yield Max
Tensile Min
Tensile Max
Elong Min
Elong Max
Bend Test
Grain Size

Order Header:

Min Wgt
Max Wgt
Customer PO
Trial Order

Order Line:

Item Number
Ship to Loc

The primary key of the new table was Coil_ID.

After the new table was created, I coded the trigger so that every time a new row is inserted into the Supplied Slab table or every time an update is done on the table, the trigger will kick in and insert the row into the new table.

The next step after the high level design specs was the detail design of the project, then the coding, followed by the unit testing, then the end user layer.

After all these steps had been completed, we made the transition from custom DS Test to Ds Prod. Then I presented the project to four staff (2 from the IT department and 2 from the Quality Assurance department) to make sure we were on the same page.

End User Display: The new table was translated to the Discoverer system, where the users will be able to access it. For now, I pre-tested it and it is being tested by the Quality Assurance department. Once they approve it, the IT department will put the new table into discoverer, where users will have access to it. I'm currently working another project, which is about half way done.

This project was a bit challenging, but I enjoyed every moment of working on it. I encountered a lot of difficulties, and things that I had never seen before, but by asking questions and wanted to learn, I was able to learn a lot more from people around me.