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APPENDICIES

Statdesk

Date: 06/11/23

Time: 14:28

Sample: 1 418

	PRICE	ROA	ROE	PER	DER
Mean	1399.635	0.346370	0.031438	586.4163	1.280587
Median	276.0000	0.014300	0.009150	6.255000	0.735000
Maximum	77950.00	125.0000	5.860000	45206.00	9.980000
Minimum	1.000000	-8.656600	-0.430000	-397.1000	-26.24000
Std. Dev.	5167.471	6.268272	0.296794	4977.353	2.717220
Skewness	10.28167	19.44594	18.72869	8.836160	-2.321499
Kurtosis	134.1190	387.1465	368.2172	79.12370	30.24513
Jarque-Bera	297987.9	2521955.	2280141.	103312.2	12921.87
Probability	0.000000	0.000000	0.000000	0.000000	0.000000
Sum	568252.0	140.6263	12.76380	238085.0	519.9184
Sum Sq. Dev.	1.08E+10	15912.95	35.67514	1.00E+10	2990.231
Observations	406	406	406	406	406

Chow Test

Redundant Fixed Effects Tests

Equation: Untitled

Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	2.209022	(9,36)	0.0446
Cross-section Chi-square	21.985455	9	0.0089

Hasuman test

Correlated Random Effects - Hausman Test

Equation: Untitled

Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	36.773168	4	0.0000

panel data analysis

Lagrange multiplier (LM) test for panel data

Date: 06/15/23 Time: 03:47

Sample: 1 418

Total panel observations: 418

Probability in ()

Null (no rand. effect) Alternative	Cross-section One-sided	Period One-sided	Both
Breusch-Pagan	1.992515	0.192403	2.184919
	(0.1581)	(0.6609)	(0.1394)
Honda	1.411565	-0.438638	0.687963
	(0.0790)	(0.6695)	(0.2457)
King-Wu	1.411565	-0.438638	0.418027
	(0.0790)	(0.6695)	(0.3380)
GHM	--	--	1.992515
	--	--	(0.1714)

Normality test

Series: Standardized Resid		
Sample 1 418		
Observations 418		
Mean		2.65e-16
Median		-0.007536
Maximum		0.371028
Minimum		-0.240575
Std. Dev.		0.116406
Skewness		0.385843
Kurtosis		3.347963
Jarque-Bera		2.806601
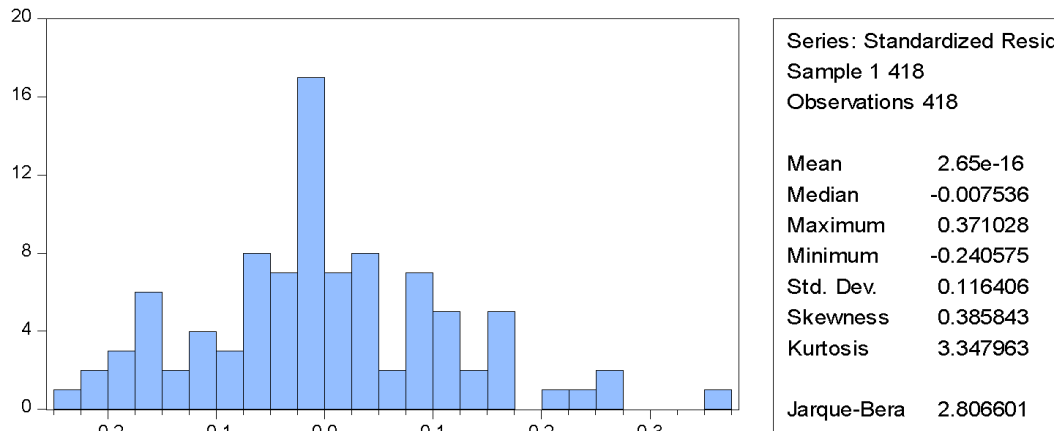
Heteroskedasticity

Heteroskedasticity Test: Glejser

F-statistic	1.712554	Prob. F(4,401)	0.1463
Obs*R-squared	6.819139	Prob. Chi-Square(4)	0.1458
Scaled explained SS	16.28655	Prob. Chi-Square(4)	0.0027

Multicollinearity test

	ROA	ROE	DER	PER
ROA	1.000000	0.016537	-0.037411	-0.005339
ROE	0.016537	1.000000	0.043003	0.005203
DER	-0.037411	0.043003	1.000000	-0.032064
PER	-0.005339	0.005203	-0.032064	1.000000

Autocorrelation test

Dependent Variable: PRICE
Method: Panel Least Squares
Date: 06/15/23 Time: 03:47
Sample: 1 418
Periods included: 2

Martin Sulaiman

Cross-sections included: 38

Total panel (balanced) observations: 418

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1464.320	287.4615	5.093971	0.0000
ROA	3.717302	0.880400	4.222289	0.0000
ROE	4.642096	1.680238	2.762761	0.0065
DER	-0.923787	0.335560	-2.752976	0.0067
PER	0.400679	0.201953	1.984018	0.0494

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.771180	Mean dependent var	0.307937
Adjusted R-squared	0.723310	S.D. dependent var	0.302062
S.E. of regression	0.229386	Akaike info criterion	0.121594
Sum squared resid	1.525918	Schwarz criterion	0.586036
Log likelihood	8.568119	Hannan-Quinn criter.	0.289522
F-statistic	3.862737	Durbin-Watson stat	2.012799
Prob(F-statistic)	0.002090		

4.9 T Test; F Test; correlation determination

Dependent Variable: PRICE

Method: Panel Least Squares

Date: 06/15/23 Time: 03:47

Sample: 1 418

Periods included: 2

Cross-sections included: 38

Total panel (balanced) observations: 418

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1464.320	287.4615	5.093971	0.0000
ROA	3.717302	0.880400	4.222289	0.0000

ROE	4.642096	1.680238	2.762761	0.0065
DER	-0.923787	0.335560	-2.752976	0.0067
PER	0.400679	0.201953	1.984018	0.0494

Effects Specification

Cross-section fixed (dummy variables)

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Adjusted R-squared	0.723310	S.D. dependent var	0.302062
S.E. of regression	0.229386	Akaike info criterion	0.121594
Sum squared resid	1.525918	Schwarz criterion	0.586036
Log likelihood	8.568119	Hannan-Quinn criter.	0.289522
F-statistic	3.862737	Durbin-Watson stat	2.012799
Prob(F-statistic)	0.002090		

CEM

Dependent Variable: PRICE
Method: Panel Least Squares
Date: 06/15/23 Time: 03:35
Sample: 1 418
Periods included: 2
Cross-sections included: 38
Total panel (balanced) observations: 418

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.979792	0.362303	2.704345	0.0096
ROA	0.298242	0.655378	0.455068	0.6512
ROE	1.267598	0.732100	1.731455	0.0902
DER	-0.182937	0.350101	-0.522526	0.6039
PER	0.055964	0.384641	0.145498	0.8850

R-squared	0.069803	Mean dependent var	0.344779
Adjusted R-squared	-0.012881	S.D. dependent var	0.509176
S.E. of regression	0.512445	Akaike info criterion	1.595394
Sum squared resid	11.81701	Schwarz criterion	1.786596
Log likelihood	-34.88485	Hannan-Quinn criter.	1.668205
F-statistic	0.844212	Durbin-Watson stat	1.100746
Prob(F-statistic)	0.504621		

Dependent Variable: PRICE

Method: Panel EGLS (Cross-section random effects)

Date: 06/15/23 Time: 03:32

Sample: 1 418

Periods included: 2

Cross-sections included: 38

Total panel (balanced) observations: 418

Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.155850	0.385685	2.996879	0.0044
ROA	0.367404	0.710384	0.517191	0.6076
ROE	1.581811	0.775360	2.040100	0.0472
DER	-0.355346	0.499832	-0.710931	0.4808
PER	0.036586	0.366010	0.099959	0.9208

Effects Specification		
	S.D.	Rho
Cross-section random	0.303203	0.3030
Idiosyncratic random	0.459855	0.6970

Weighted Statistics			
R-squared	0.102971	Mean dependent var	0.193535
Adjusted R-squared	0.023236	S.D. dependent var	0.457709
S.E. of regression	0.452360	Sum squared resid	9.208342
F-statistic	1.291407	Durbin-Watson stat	1.469441
Prob(F-statistic)	0.287652		

Unweighted Statistics			
R-squared	0.059304	Mean dependent var	0.344779
Sum squared resid	11.95038	Durbin-Watson stat	1.132275

code	year	Q	y (Price)	x1 (ROA)	x2 (ROE)	x3 (DER)	x4 (PER)
	2020	Q1	327	-0.31%	-1.70%	429%	-5,29

		Q2	383	-1.15%	-6.61%	460,00%	-20.61
		Q3	338	-0.60%	-3.21%	418%	-7.56
		Q4	590	-0.84%	-4.81%	457%	-14.82
		Q1	570	0.09%	0.47%	421%	-21.61
		Q2	640	0.77%	3.87%	386%	191.92
		Q3	550	0.17%	0.83%	377%	26.74
	2021	Q4	466	-0.16%	-0.86%	415,00%	108.27
		Q1	555	1.29%	7.99%	506,00%	-88.43
MED		Q2	635	2.63%	14.01%	420%	10.79
C	2022	Q3	915	1.99%	9.45%	361%	5.85
BIPI		Q1	50	0.76%	3.29%	304%	11.02
		Q2	50	0.27%	3.29%	302%	5,4
		Q3	50	0.50%	1.15%	297%	5,5
	2020	Q4	50	-0.11%	2.12%	317%	7,8
		Q1	50	0,64%	-0.47%	193%	6,1
		Q2	50	0,29%	0.84%	184%	8,6
		Q3	50	0,46%	1.40%	181%	8,7
	2021	Q4	50	0.09%	0.27%	173%	185.19
		Q1	92	0.13%	0.38%	173%	242.11
		Q2	115	0,13%	5.25%	167%	19.20
	2022	Q3	142	1,76%	-2.49%	137%	-49.65
SURE		Q1	2860	0.18%	0.78%	339%	11,00
		Q2	2930	0.81%	3.31%	310%	416,7
		Q3	2880	-0.91%	-3.80%	318%	964,00
	2020	Q4	2530	-1.84%	-19,77%	484%	-193,57
		Q1	2020	1,40%	-10.72%	532%	-77,2
		Q2	1885	-1.91%	-27.96%	670%	-47,4
	2021	Q3	2000	-1.04%	-17.69%	781%	-55,5

		Q4	1990	-1.63%	-35.81%	1.02%	-52,5
		Q1	1975	-1.09%	-31,32%	1.36%	-68,4
		Q2	1875	-1.89%	-114.61%	2.97%	-48,5
	2022	Q3	1800	-1.85%	817.00%	-22.91%	-42,5
		Q1	50	1.92%	5.60%	236%	2.48
		Q2	52	1.71%	5.58%	272%	2.94
	2020	Q3	54	1.78%	5.19%	225%	2.37
		Q1	129	1.01%	2.70%	200%	11.22
		Q2	105	0.73%	1.91%	194%	12.10
		Q3	118	0.73%	0,33%	211%	12.57
	2021	Q4	128	0.51%	1.09%	128%	40.63
		Q1	102	2.04%	4.16%	118%	8.17
		Q2	170	0.85%	1.93%	142%	28.57
	2022	Q3	222	1.33%	2.91%	133%	23.27
PSAB		Q1	256	3.34%	1.54%	130%	22.07
		Q2	191	0.13%	0,45%	219%	232.93
		Q3	176	-0.50%	-1,58%	213%	0,66
	2020	Q4	206	-0.13%	-0,36%	211%	0,67
		Q1	264	-0.16%	-0,51%	188%	1,76
		Q2	195	-0.04%	-0,11%	166%	3,0
		Q3	178	-0.48%	-1,38%	165%	-72.95
	2021	Q4	150	-1.18%	-3,61%	175%	-25.17
		Q1	139	1.55%	4,20%	136%	19.8
		Q2	125	0.08%	0,21%	133%	347.22
	2022	Q3	119	-0.34%	-0,87%	133%	-75.8
MDKA	2020	Q1	117	-0.07%	-0,18%	133%	-344.12

		Q2	990	1.59%	2.99%	81%	90.71
		Q3	1332	2.24%	4.05%	74%	98.91
		Q4	1576	2.15%	3.77%	70%	115.60
		Q1	2371	-2.71%	-4.71%	68%	-152.07
		Q2	2098	-0.43%	-0.72%	63%	-678.23
		Q3	2868	0.91%	1.50%	63%	426.71
	2021	Q4	2459	1.29%	2.04%	56%	266.67
		Q1	3795	1.17%	1.99%	66%	415.6
		Q2	4419	3.94%	8.73%	109,00%	103.76
	2022	Q3	3990	0.90%	3%	138%	218.39
SQMI		Q1	3940	-0.71%	-2.50%	153%	-245.79
		Q2	188	-17.67%	32.52%	-286%	-41.41
		Q3	185	12.86%	-31.34%	-346%	55.56
	2020	Q4	174	-6.41%	13.64%	-315%	-103.57
		Q1	378	3.15%	-7.31%	-334%	450.00
		Q2	296	-3.35%	7.39%	-323%	-325.27
		Q3	252	-0.29%	1%	-326%	-3,150.00
	2021	Q4	110	0.96%	-2.22%	-334%	407.41
		Q4	59	-1.46%	-3.32%	129%	-140.48
		Q1	67	-1.15%	-2.77%	142%	-197.06
	2022	Q2	65	-1.74%	-4.54%	163%	-122.64
KRAS		Q1	75	-1.09%	-3.12%	188%	-208.33
		Q2	149	2.53%	31.43%	1.157	2.38
		Q3	276	-2.42%	-15.64%	555%	-4.65
	2020	Q4	286	-0.99%	-6.98%	618%	-11.69
	2021	Q1	428	1.52%	10.77%	616%	11.22

		Q2	605	0.64%	4.34%	588%	36.36
		Q3	498	0.29%	2.28%	703%	64.09
		Q4	505	0.71%	5.75%	714%	25.49
		Q1	412	0.08%	0.52%	574%	190.74
		Q2	352	0.68%	4.40%	559%	17.92
	2022	Q3	354	1.33%	8.23%	524%	8.86
BAJA		Q1	394	0.12%	0.74%	528%	111.93
		Q2	50	-11.50%	432.39%	-3.86%	-0.91
		Q3	58	12.03%	133.04%	1.01%	1.12
	2020	Q4	57	0,67%	6.97%	944%	19.52
		Q1	116	7,35%	43.69%	495%	3.74
		Q2	134	5,39%	25.24%	369%	5.62
		Q3	312	4.31%	17.47%	306%	15.6200
	2021	Q4	380	5.02%	17.43%	247,00%	15.83
		Q1	334	-4.62%	-15.68%	239%	-17.91
		Q2	284	-1.49%	-5.74%	285%	-43.96
	2022	Q3	177	-1.91%	-7.79%	307%	-21.74
CTBN		Q1	164	-4.93%	-23.73%	381%	-8.15
		Q2	237	0.87%	1.31%	50%	86.62
		Q3	245	0.87%	1.16%	34%	113.58
	2020	Q4	306	-0.76%	-0.95%	25%	-134.99
		Q1	322	-3.71%	-4.87%	31%	-38.33
		Q2	380	-1.07%	-1.35%	26%	-157.94
		Q3	345	-0.74%	-0.96%	30%	-202.58
	2021	Q4	345	-1.75%	-2.27%	30%	-90.05
	2022	Q4	240	-8.45%	-12.93%	53%	-11.63

		Q1	240	-1.02%	-1.82%	79%	-83.48
		Q2	243	0.06%	0.09%	63%	1,577.92
GDST		Q1	1515	-1.11%	-1.69%	52%	-54.69
		Q2	51	-5.42%	-13.30%	145%	-4.39
		Q3	60	2.01%	4.03%	110%	16.39
	2020	Q4	59	-1.78%	-3.67%	106%	-18.38
		Q1	110	1.61%	3.01%	88%	39.86
		Q2	98	0.38%	0.73%	92%	146.27
		Q3	96	-0.04%	-0.08%	83%	-1,371.43
	2021	Q4	107	-1.61%	-3.17%	97%	-37.68
		Q1	100	-2.71%	-5.45%	101%	-21.51
		Q2	96	1.99%	4.54%	112%	23.65
	2022	Q3	91	5.15%	10.47%	103%	8.68
BTON		Q1	170	3.96%	8.20%	107%	19.02
		Q2	125	10.80%	13.64%	26%	3.09
		Q3	190	-10.02%	-13.30%	33%	-5.48
	2020	Q4	176	2.94%	3.74%	27%	17.37
		Q1	300	-2.95%	-3.68%	24%	-31.12
		Q2	292	3.85%	4.97%	30%	21.28
		Q3	442	0.46%	0.58%	27%	274.53
	2021	Q4	510	-0.57%	-0.71%	25%	-260.20
		Q1	430	0.00%	0.01%	37%	21,500.00
		Q2	362	1.24%	1.80%	46%	71.83
	2022	Q3	290	3.65%	5.31%	45%	18.51
GGRP		Q1	388	3.24%	4.83%	49%	25.95
	2020	Q2	298	0.09%	0.14%	55,00%	234.65

		Q3	274	-1.14%	-1.74%	53%	-19.54
		Q4	320	-0.45%	-0.68%	51%	-56.54
		Q1	438	0.69%	1.03%	50%	53.81
		Q2	382	0.72%	1.06%	47%	42.87
		Q3	420	1.47%	2.13%	45%	23
	2021	Q4	446	1.62%	2.36%	46%	21.89
		Q1	780	2.02%	2.86%	42%	30.67
		Q2	750	1.33%	2.06%	49%	40.00
	2022	Q3	630	1.05%	1.62%	54%	40.91
HKMU		Q1	560	1.87%	2.77%	48%	20.19
		Q2	73	0.55%	1.46%	126%	22.53
		Q3	84	-1.98%	-5.09%	118%	-7.81
	2020	Q4	71	-2.63%	-7.03%	126%	-5.12
		Q1	110	-17.87%	-36.74%	103%	-2.13
		Q2	80	-0.33%	-0.68%	101%	-84.21
		Q3	65	-0.68%	-1.38%	101%	-34.21
	2021	Q4	53	-0.32%	-0.67%	104%	-58.24
		Q1	53	-30.16%	-98.42%	223%	-0.79
		Q2	50	-1.96%	-6.64%	235%	-11.76
	2022	Q3	50	-3.97%	-15.23%	282%	-6.00
ISSP		Q1	50	-3.21%	-13.65%	321%	-7.63
		Q2	110	-1.18%	-2.49%	111,00%	-10.51
		Q3	124	1.23%	2.51%	103%	11.45
	2020	Q4	116	0.75%	1.49%	99%	17.82
		Q1	160	2.08%	3.79%	82%	9.1
	2021	Q2	187	2.11%	3.53%	67%	11.05

		Q3	240	2.09%	3.65%	74%	13.02
		Q4	306	2.79%	5.06%	82%	11.49
		Q4	398	0.57%	1.07%	87%	70.57
		Q1	416	1.67%	3.08%	85%	24.84
	2022	Q2	292	0.98%	1.80%	83%	29.8
OPMS		Q1	272	1.37%	2.53%	86%	19.15
		Q2	88	0,78%	0,77%	2%	101.15
		Q3	118	0,36%	0,36%	1%	590.00
	2020	Q4	148	0,71%	0,70%	1%	217.65
		Q1	166	-0,75%	-0,79%	6%	-230.56
		Q2	650	-0,10%	-0,10%	1%	-7,222
		Q3	442	0,47%	0,47%	1%	1004.55
	2021	Q4	183	-0,89%	-0,88%	1%	-220.48
		Q1	139	0,13%	0,12%	1%	1,158.33
		Q2	116	-0,66%	-0,65%	1%	-190.16
	2022	Q3	110	0.77%	0,77%	1%	154.93
ADRO		Q1	112	-1.32%	-1.36%	1%	-89.60
		Q2	990	1.42%	2.63%	79%	19.71
		Q3	995	0.64%	1.15%	73%	52.07
	2020	Q4	1135	-0.61%	-1.08%	71%	-61.92
		Q1	1000	0.46%	0.80%	65%	111.28
		Q2	1175	1.11%	1.86%	63%	35.94
		Q3	1205	1.46%	2.59%	71%	27.02
	2021	Q4	1760	3.49%	6.14%	69%	15.83
		Q1	2250	6.74%	12.36%	76%	9.86
	2022	Q2	2690	5.24%	8.76%	60%	14.98

		Q3	2860	9.41%	16.25%	65%	7.44
DWGL		Q1	3960	7.16%	12.40%	65%	11.57
		Q2	260	1.57%	-38.05%	-2.52%	176.87
		Q3	258	2.36%	-36.89%	-1.66%	121.70
	2020	Q4	190	4.28%	-231.86%	-5.52%	47.26
		Q1	164	-4.37%	58.58%	-1.44%	-46.46
		Q2	180	2.73%	-74.44%	-2.83%	69.77
		Q3	185	-3.86%	51.19%	-1.43%	-49.07
	2021	Q4	199	5.62%	-1033.10%	-18.49%	29.61
		Q1	189	3.70%	33.79%	813,00%	37.88
		Q2	182	2.92%	25.58%	775%	35.9
	2022	Q3	204	-0.71%	-6.25%	779%	-174.36
ARII		Q1	212	0.76%	7.08%	827%	148.25
		Q2	600	-1.58%	-14.35%	818%	-20.03
		Q3	530	0.65%	5.65%	898%	46.57
	2020	Q4	430	-1.81%	-18.35%	919%	-13.28
		Q1	396	-0.82%	-9.80%	1.11%	-28.95
		Q2	170	-0.60%	-8.23%	1.27%	-16.21
		Q3	276	0.13%	1.48%	998%	115.48
	2021	Q4	348	0.74%	7.87%	952%	25.38
		Q1	250	-0.45%	-4.18%	834%	-33.11
		Q2	248	0.44%	3.69%	730%	34.54
	2022	Q3	228	3.74%	23.83%	534%	3.63
GEMS		Q1	348	3.32%	17.36%	418%	2,17
		Q2	50	4.23%	3.61%	100%	27.640
	2020	Q3	50	1.96%	2.99%	100%	67.250

Company	Year	Quarter					
		Q4	50	1.66%	6.84%	107%	79.56
		Q1	50	3.11%	25.42%	134%	42.65
		Q2	50	11.08%	13.13%	100%	10.43
		Q3	4	5.74%	13.10%	128%	32.67
	2021	Q4	4	7.07%	15.26%	115%	31.43
		Q1	8	18.20%	47.90%	163%	21.71
		Q2	5	14.10%	29.78%	110,00%	14.92
	2022	Q3	6	19.19%	40.94%	112,00%	11.69
KKGI		Q1	7	14.11%	32.60%	131%	18.89
		Q2	162	1.02%	1.41%	36%	-13.65
		Q3	204	-3.18%	-4.37%	31%	21.47
	2020	Q4	196	2.74%	3.65%	33%	-9.78
		Q1	266	-6.13%	-8.27%	29,00%	129.76
		Q2	290	0.68%	0.88%	32%	50.52
		Q3	232	1.72%	2.30%	33%	40.14
	2021	Q4	296	4.35%	5.74%	31%	19.81
		Q1	264	10.47%	14.05%	34%	6.68
		Q2	412	4.64%	6.47%	39%	21.16
	2022	Q3	498	8.80%	12.35%	40%	12.46
BUMI		Q1	615	5.68%	7.75%	36%	22.77
		Q2	50	-0.97%	15.44%	-1.38%	-5.84
		Q3	50	-1.28%	20.27%	-1.37%	-5.10
	2020	Q4	50	-1.60%	14.90%	-813,00%	-4.13
		Q1	72	-5.56%	31.85%	-550%	-1.85
		Q2	59	-0.34%	1.92%	-541%	-25.76
	2021	Q3	60	0.39%	-2.36%	-574%	22.56

Company	Year	Quarter					
		Q4	66	1.67%	-12.00%	-665%	5.54
		Q1	67	2.47%	-21.66%	-744%	3.35
		Q2	57	1.04%	-9.79%	-773%	11.83
	2022	Q3	67	2.82%	-38.00%	-1.08%	4.60
TCPI		Q1	137	4.44%	-151.10%	-2.59%	6.41
		Q2	4840	0.74%	1.63%	112,00%	1092.55
		Q3	4650	0.32%	0.68%	108%	2486.63
	2020	Q4	5250	0.34%	0.72%	105%	2,692.31
		Q1	7000	0.54%	1.11%	99%	2,348.99
		Q2	7700	0.95%	1.84%	87%	1,536.93
		Q3	8775	0.31%	0.63%	93%	5072.25
	2021	Q4	9550	0.89%	1.81%	96%	1887.35
		Q1	1005	0.69%	1.37%	91%	2,544.30
		Q2	1030	1.45%	2.75%	83%	1265.36
	2022	Q3	1055	0.74%	1.40%	82%	2517.9
PTBA		Q1	910	0.62%	1.15%	78%	2,630.06
		Q2	2180	4.57%	3,26%	39%	27.81
		Q3	2029	2.44%	1,54%	69%	60.35
	2020	Q4	1970	2.68%	2,26%	48%	51.65
		Q1	2810	3.93%	2,87%	42%	49.15
		Q2	2620	2.88%	2,04%	40%	60.30
		Q3	2000	4.73%	7.38%	55,00%	18.03
	2021	Q4	2760	9.29%	14.38%	54%	10.64
		Q1	2710	8.70%	13.06%	49%	9.94
		Q2	3290	5.84%	8.65%	47%	16.66
	2022	Q3	3820	10.81%	17.29%	59%	11.34

BOSS		Q1	4170	9.33%	14.72%	57%	12.5
		Q2	62	-2.71%	-12.20%	350%	-4.13
		Q3	82	0.49%	1.99%	310%	32.80
	2020	Q4	127	-4.62%	-24.02%	420%	-5.22
		Q1	150	-7.82%	-62.61%	700%	-3.84
		Q2	104	-5.26%	-67.10%	1.175%	-4.15
		Q3	55	-3.80%	-82.74%	2.08%	-3.25
	2021	Q4	104	-9.16%	231.27%	-2624%	-2.89
		Q1	71	-10.73%	72.03%	-771%	-1.77
		Q2	120	0.61%	-4.70%	-874%	48
	2022	Q3	52	2.45%	-28.41%	-1.26%	4.41
SMMT		Q1	83	10.18%	467.73%	4.49%	1.57
		Q2	93	-1.67%	-2.54%	54%	-20.00
		Q3	83	0.87%	1.29%	50%	34.73
	2020	Q4	85	-0.67%	-1.01%	52%	-45.95
		Q1	116	-0.41%	-0.63%	55%	-100.87
		Q2	97	1.14%	1.75%	55,00%	29.66
		Q3	111	3.68%	5.44%	50%	10.34
	2021	Q4	190	7.85%	10.96%	40%	7.83
		Q1	202	10.74%	13.88%	29,00%	5.63
		Q2	1	6.55%	8.28%	25%	46.10
	2022	Q3	820	9.32%	11.52%	22%	22.36
TPMA		Q1	760	8.68%	10.29%	15%	25.66
		Q2	300	1.08%	1.49%	38%	40.32
		Q3	280	0.23%	0.32%	38%	200.00
	2020	Q4	320	-0.38%	-0.52%	37%	-141.59

		Q1	350	0.81%	1.09%	35%	79.01
		Q2	1030	0.90%	1.19%	32%	200.00
		Q3	780	1.20%	1.67%	39%	112.23
	2021	Q4	570	1.20%	1.57%	31%	87.42
		Q1	388	0.53%	0.68%	29%	136.14
		Q2	366	1.88%	2.41%	28%	35.23
	2022	Q3	380	3.88%	5.05%	30%	16.44
BYAN		Q1	358	3.64%	4.50%	24%	16.29
		Q2	14500	2.62%	6.61%	147%	83.08
		Q3	12525	2.06%	4.77%	127%	102.24
	2020	Q4	12650	3.08%	7.29%	132%	67.53
		Q1	15475	13.13%	25.57%	91%	17.45
		Q2	12475	9.06%	16.16%	74%	17.20
		Q3	13600	11.17%	18.69%	64%	18.25
	2021	Q4	29450	16.48%	24.92%	48%	22.25
		Q1	27000	23.03%	31.13%	32%	11.04
		Q2	43350	12.54%	16.66%	29%	27.31
	2022	Q3	77950	24.55%	35.20%	39%	28.38
BESS		Q1	67000	20.84%	29.03%	34%	21.59
		Q2	244	0.93%	2.03%	119%	144.24
		Q3	230	0.57%	1.23%	117%	227.72
	2020	Q4	216	2.06%	4.10%	100%	61.36
		Q1	240	4.87%	9.53%	96%	27.03
		Q2	230	4.20%	7.59%	81%	30.03
		Q3	515	6.29%	10.54%	67%	43.31
	2021	Q4	1	1.94%	3.12%	60%	384.30

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		Q1	875	5.03%	7.78%	55%	89.01
		Q2	484	2.76%	4.41%	60%	82.88
	2022	Q3	400	1.24%	1.95%	57%	151.52
PSSI		Q1	198	0.76%	1.27%	66%	113.14
		Q2	156	0.78%	1.22%	57,00%	47.27
		Q3	169	0.71%	1.12%	59%	64.02
	2020	Q4	169	1.67%	2.73%	64%	24.6
		Q1	174	2.34%	3.64%	55,00%	19.71
		Q2	199	1.71%	2.62%	53%	29.05
		Q3	250	3.19%	4.74%	48%	19.81
	2021	Q4	318	5.55%	7.54%	36%	14.94
		Q1	402	5.93%	8%	41%	15.96
		Q2	476	6%	8.00%	28,00%	18.26
	2022	Q3	615	5.54%	7.61%	37%	24.16
ANTM		Q1	510	8.19%	10.77%	31%	12.36
		Q2	450	-0.92%	-1.56%	71%	-38.36
		Q3	605	1.22%	2.03%	66%	39.65
	2020	Q4	705	2.42%	3.97%	64%	22.56
		Q1	1935	0.99%	1.65%	67%	148.28
		Q2	2250	1.93%	3.18%	65%	85.78
		Q3	2300	1.64%	2.67%	63%	104.26
	2021	Q4	2290	1.65%	2.70%	64%	100.04
		Q1	2250	0.46%	0.73%	58,00%	357.14
		Q2	2440	4.65%	6.57%	41%	40.01
	2022	Q3	1800	0.19%	0.28%	50%	714.29
DKFT	2020	Q1	1940	3.26%	4.88%	50%	42.35

		Q2	81	-5.68%	-24.09%	320%	-2.81
		Q3	98	2.95%	10.30%	237%	7.12
		Q4	100	-0.20%	-0.71%	245%	-106.38
		Q1	178	-2.91%	-11.11%	277%	-13.43
		Q2	155	-0.73%	-2.93%	301%	-45.72
		Q3	150	0.83%	3.21%	293%	39.06
	2021	Q4	133	-1.58%	-6.51%	325%	-18.19
		Q1	122	-6.68%	-30.17%	386%	-4.67
		Q2	132	1.35%	5.80%	368%	24.77
	2022	Q3	119	1.32%	5.34%	349%	22.93
INCO		Q1	121	-0.12%	-0.49%	349%	-252.08
		Q2	2160	1.32%	1.47%	11%	45.28
		Q3	2800	0.89%	1.00%	12%	97.32
	2020	Q4	3560	1.13%	1.27%	13%	92.23
		Q1	5100	0.03%	0.03%	15%	6,219.51
		Q2	4380	1.45%	1.64%	13%	88.65
		Q3	4610	1.07%	1.22%	14%	125.89
	2021	Q4	4590	2.63%	3.00%	14%	50.36
		Q1	4680	1.72%	1.97%	15%	76.65
		Q2	6700	2.66%	3.04%	14,00%	68.55
	2022	Q3	5650	3.26%	3.70%	14,00%	44.28
IFSH		Q1	6400	0.81%	0.92%	14,00%	195.18
		Q2	380	-3.57%	-9.37%	25%	-17.91
		Q3	420	1.67%	1.44%	17%	44.07
	2020	Q4	370	0.59%	1.44%	12%	106.02
	2021	Q1	396	4.35%	8.83%	14,00%	17.05

		Q2	1100	1.50%	2.93%	18%	138.36
		Q3	1090	2.46%	4.53%	11%	84.63
		Q4	1635	0.06%	0.11%	11%	5,109.38
		Q1	2140	12.35%	19.54%	9%	36.50
		Q2	1125	3.40%	5.13%	9%	65.37
	2022	Q3	1415	0.77%	1%	9%	393.06
BRMS		Q1	1095	3%	4.28%	13%	77.66
		Q2	44	0.02%	0,02%	30%	1,200.00
		Q3	44	0.11%	0.09%	18%	266.67
	2020	Q4	48	0.22%	0.18%	21%	170.97
		Q1	72	0.23%	0.18%	20%	307.69
		Q2	69	0.26%	0.22%	20%	224.24
		Q3	110	0.40%	0.33%	26%	276.74
	2021	Q4	86	0.34%	0.28%	18%	251.35
		Q1	116	6.34%	5.72%	17%	16.86
		Q2	198	0.18%	0.16%	18%	1,042.11
	2022	Q3	246	0.25%	0.18%	26%	1,171.43
CITA		Q1	140	0.25%	0.24%	26%	482.76
		Q2	1625	5.98%	7.80%	299%	22.20
		Q3	1800	4.45%	5.26%	309%	36.74
	2020	Q4	2390	5.02%	6.06%	337%	43.42
		Q1	2980	1.25%	-1.50%	337%	-227.31
		Q2	2770	3.74%	4%	398%	66.20
		Q3	3000	3.22%	4.07%	345%	159.23
	2021	Q4	2820	1.70%	2.01%	357%	66.30
	2022	Q1	3220	4.47%	5.24%	299%	39.11

		Q2	3020	2.86%	3.36%	250%	39.11
		Q3	3000	6.14%	7.74%	358%	0.00
INAI		Q1	2940	0.00%	0.00%	358%	12,46
		Q2	332	0.11%	0.44%	546%	149.55
		Q3	334	-0.02%	-0.09%	370%	-726.09
	2020	Q4	322	-0.08%	-0.34%	396%	-196.34
		Q1	344	0.28%	1.22%	309%	54.05
		Q2	342	-1.26%	-6.29%	275%	-11.42
		Q3	320	-0.80%	-3.55%	326%	-20.84
	2021	Q4	296	0.78%	3.55%	309%	17.58
		Q1	292	1.49%	5.98%	296%	8.00
		Q2	288	0.34%	1.23%	208%	35.16
	2022	Q3	324	-0.29%	-1.16%	220%	-44.75
TBMS		Q1	298	-2.55%	-11.69%	317%	-4.51
		Q2	675	0.33%	0.94%	186%	33.47
		Q3	685	1.38%	3.40%	146%	10.52
	2020	Q4	725	-0.16%	-0.39%	152%	-93.07
		Q1	940	1.57%	4.78%	205%	10.11
		Q2	1020	1.26%	3.65%	189%	13.2
		Q3	1540	0.82%	2.49%	204%	29.02
	2021	Q4	1690	1.13%	2.82%	148%	27.78
		Q1	1730	1.40%	3.58%	156%	21.64
		Q2	1750	1.76%	4.08%	132%	18.31
	2022	Q3	1780	1.34%	3.56%	166%	20.31

CURRICULUM VITAE
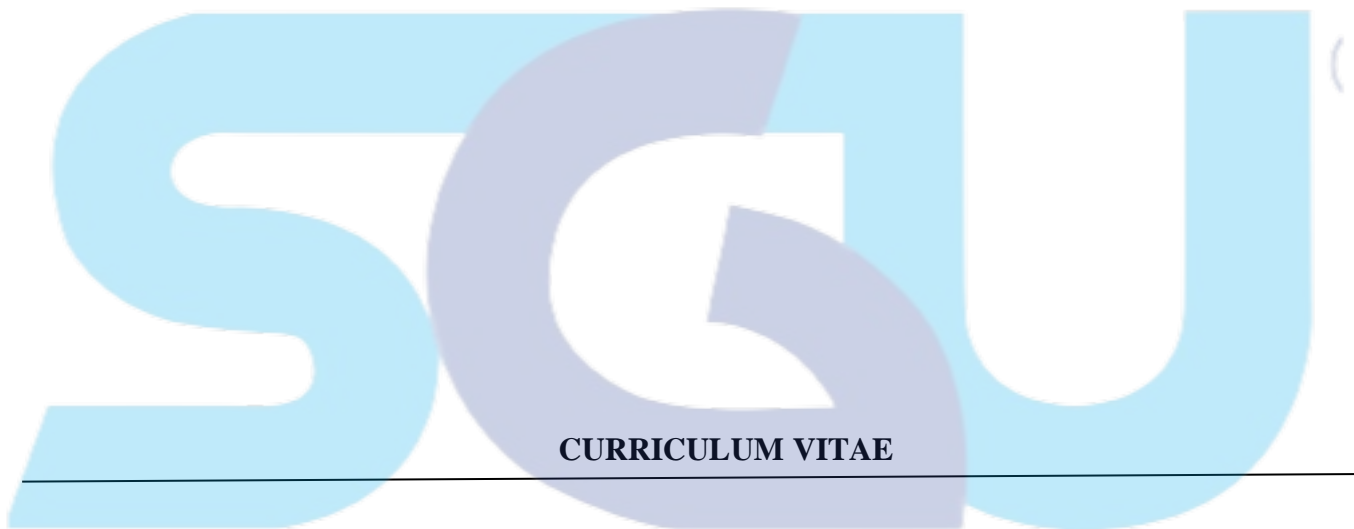
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Education

2018 - 2023	Swiss German University
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Work Experience

Apr 2022 – Aug 2021	Internship under Sugartrends
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Nov 2019 – Des 2019	Internship under PT. Mekarindo Abadi Cemerlang
Jul 2019 – Aug 2019	Part Time in Michicolatte Eye Wear
Languages	Indonesian (native speaker)
	English (intermediate)
	German (basic)